

## OWNER'S MANUAL SERVICE GUIDE



ST" SPORT II

606912

GASOLINE POWERED UTILITY VEHICLES

ISSUED OCTOBER 2007 REVISED FEBRUARY 2010

### **SAFETY**

For any questions on material contained in this manual, contact an authorized representative for clarification.

Read and understand all labels located on the vehicle. Always replace any damaged or missing labels.

On steep hills it is possible for vehicles to coast at greater than normal speeds encountered on a flat surface. To prevent loss of vehicle control and possible serious injury, speeds should be limited to no more than the maximum speed on level ground. See GENERAL SPECIFICATIONS. Limit speed by applying the service brake.

Catastrophic damage to the drivetrain components due to excessive speed may result from driving the vehicle above specified speed. Damage caused by excessive speed may cause a loss of vehicle control, is costly, is considered abuse and will not be covered under warranty.

For towing/transporting vehicle, refer to "TRANSPORTING VEHICLE".

Signs similar to the ones illustrated should be used to warn of situations that could result in an unsafe condition.

### **BATTERY WARNING**

Battery posts,
terminals and related
accessories contain
lead and lead compounds,
chemicals known
to cause cancer and
reproductive harm.

WASH HANDS AFTER HANDLING!





TO LIMIT SPEED







Be sure that this manual remains as part of the permanent service record should the vehicle be sold. Throughout this quide **NOTE**, **CAUTION** and **WARNING** will be used.

Observe these **NOTES**, **CAUTIONS** and **WARNINGS**; be aware that servicing a vehicle requires mechanical skill and a regard for conditions that could be hazardous. Improper service or repair may damage the vehicle or render it unsafe.

#### NOTE

A **NOTE** indicates a condition that should be observed.

### A

### CAUTION

A CAUTION indicates a condition that may result in damage to the vehicle.

## **A** WARNING

A WARNING indicates a hazardous condition that could result in severe injury or death.

## **AWARNING**

Engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects, or other reproductive harm.

### NOTE

The exhaust emissions of this vehicles' engine complies with regulations set forth by the Environmental Protection Agency (EPA) of the United States of America (USA) at time of manufacture. Significant fines could result from modifications or tampering with the engine, fuel, ignition or air intake systems.

## **A** WARNING

Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

#### NOTE

This spark ignition system meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Ce système d'allumage par étincelle de véhicule respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

(NOTES, CAUTIONS AND WARNINGS CONTINUED ON INSIDE OF BACK COVER)

# OWNER'S MANUAL AND SERVICE GUIDE

# GASOLINE POWERED UTILITY VEHICLES

ST SPORT II<sup>™</sup> CARB

**Starting Model Year 2008** 

The E-Z-GO Division of Textron Inc. reserves the right to incorporate engineering and design changes to products in this Manual, without obligation to include these changes on units leased/sold previously.

The information contained in this Manual may be revised periodically by the E-Z-GO Division, and therefore is subject to change without notice.

The E-Z-GO Division DISCLAIMS LIABLITY FOR ERRORS IN THIS MANUAL, and the E-Z-GO Division SPECIFICALLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES resulting from the use of the information and materials in this Manual.

These are the original instructions as defined by 2006/42/EC.

## TO CONTACT US NORTH AMERICA:

TECHNICAL ASSISTANCE & WARRANTY PHONE: 1-800-774-3946, FAX: 1-800-448-8124

SERVICE PARTS PHONE: 1-888-GET-EZGO (1-888-438-3946), FAX: 1-800-752-6175

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E-Z-GO DIVISION OF TEXTRON, INC., 1451 MARVIN GRIFFIN ROAD, AUGUSTA, GEORGIA USA 30906-3852

### **GENERAL INFORMATION**

This vehicle has been designed and manufactured in the United States of America (USA) as a 'World Vehicle'. The Standards and Specifications listed in the following text originate in the USA unless otherwise indicated.

The use of non Original Equipment Manufacturer (OEM) approved parts may void the warranty.

Overfilling battery may void the warranty.

Tampering with or adjusting the governor to permit vehicle to operate at above factory specifications will void the vehicle warranty.

When servicing engines, all adjustments and replacement components must be per original vehicle specifications in order to maintain the United States of America Federal and State emission certification applicable at the time of manufacture.

#### **BATTERY PROLONGED STORAGE**

All batteries will self discharge over time. The rate of self discharge varies depending on the ambient temperature and the age and condition of the batteries.

A fully charged battery will not freeze in winter temperatures unless the temperature falls below -75 F (-60 C).

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This manual has been designed to assist in maintaining the vehicle in accordance with procedures developed by the manufacturer. Adherence to these procedures and troubleshooting tips will ensure the best possible service from the product. To reduce the chance of personal injury or property damage, the following must be carefully observed:

### **A** CAUTION

Certain replacement parts can be used independently and/or in combination with other accessories to modify an E-Z-GO-manufactured vehicle to permit the vehicle to operate at or in excess of 20mph. When an E-Z-GO-manufactured vehicle is modified in any way by the Distributor, Dealer or customer to operate at or in excess of 20mph, UNDER FED-ERAL LAW the modified product will be a Low Speed Vehicle (LSV) subject to the strictures and requirements of Federal Motor Vehicle Safety Standard 571.500. In these instances, pursuant to Federal law the Distributor or Dealer MUST equip the product with headlights, rear lights, turn signals, seat belts, top, horn and all other modifications for LSV's mandated in FMVSS 571.500, and affix a Vehicle Identification Number to the product in accordance with the requirements of FMVSS 571.565. Pursuant to FMVSS 571.500, and in accordance with the State laws applicable in the places of sale and use of the product, the Distributor, Dealer or customer modifying the vehicle also will be the Final Vehicle Manufacturer for the LSV, and required to title or register the vehicle as mandated by State law.

E-Z-GO will NOT approve Distributor, Dealer or customer modifications converting E-Z-GO products into LSV's.

The Company, in addition, recommends that all E-Z-GO products sold as personal transportation vehicles BE OPER-ATED ONLY BY PERSONS WITH VALID DRIVERS LICENSES, AND IN ACCORDANCE WITH APPLICABLE STATE REQUIREMENTS. This restriction is important to the SAFE USE AND OPERATION of the product. On behalf of E-Z-GO, I am directing that E-Z-GO Branch personnel, Distributors and Dealers advise all customers to adhere to this SAFETY RESTRICTION, in connection with the use of all products, new and used, the Distributor or Dealer has reason to believe may be operated in personal transportation applications.

Information on FMVSS 571.500 can be obtained at Title 49 of the Code of Federal Regulations, section 571.500, or through the Internet at the website for the U.S. Department of Transportation - at Dockets and Regulation, then to Title 49 of the Code of Federal Regulations (Transportation).

### **GENERAL**

Many vehicles are used for a variety of tasks beyond the original intended use of the vehicle; therefore, it is impossible to anticipate and warn against every possible combination of circumstances that may occur. No warnings can take the place of good common sense and prudent driving practices.

Good common sense and prudent driving practices do more to prevent accidents and injury than all of the warnings and instructions combined. The manufacturer strongly suggests that all users and maintenance personnel read this entire manual paying particular attention to the CAUTIONS and WARNINGS contained therein.

If you have any questions regarding this vehicle, contact your closest representative or write to the address on the back cover of this publication, Attention: Product Service Department.

The manufacturer reserves the right to make design changes without obligation to make these changes on units previously sold and the information contained in this manual is subject to change without notice.

The manufacturer is not liable for errors in this manual or for incidental or consequential damages that result from the use of the material in this manual.

This vehicle conforms to the current applicable standard(s) for safety and performance requirements.

These vehicles are designed and manufactured for off-road use. They do not conform to Federal Motor Vehicle Safety Standards of the United States of America (USA) and are not equipped for operation on public streets. Some communities may permit these vehicles to be operated on their streets on a limited basis and in accordance with local ordinances.

Refer to GENERAL SPECIFICATIONS for vehicle seating capacity.

Never modify the vehicle in any way that will alter the weight distribution of the vehicle, decrease its stability or increase the speed beyond the factory specification. Such modifications can cause serious personal injury or death. Modifications that increase the speed and/or weight of the vehicle will extend the stopping distance and may reduce the stability of the vehicle. Do not make any such modifications or changes. The manufacturer prohibits and disclaims responsibility for any such modifications or any other alteration which would adversely affect the safety of the vehicle.

Vehicles that are capable of higher speeds must limit their speed to no more than the speed of other vehicles when used in a golf course environment. Additionally, speed should be further moderated by the environmental conditions, terrain and common sense.

Operation of the vehicle is limited to persons above the height of 59 inches (150 cm).

### **GENERAL OPERATION**

#### Always:

- Use the vehicle in a responsible manner and maintain the vehicle in safe operating condition.
- Read and observe all warnings and operation instruction labels affixed to the vehicle.
- Follow all safety rules established in the area where the vehicle is being operated.
- · Leave vehicle when there is a risk of lightning.
- Reduce speed to compensate for poor terrain or conditions.
- · Apply service brake to control speed on steep grades.
- Maintain adequate distance between vehicles.
- · Reduce speed in wet areas.
- Use extreme caution when approaching sharp or blind turns.
- Use extreme caution when driving over loose terrain.
- Use extreme caution in areas where pedestrians are present.

### **MAINTENANCE**

#### Always:

- Maintain the vehicle in accordance with the manufacturer's periodic service schedule.
- Ensure that repairs are performed by those that are trained and qualified to do so.
- Follow the manufacturer's maintenance procedures for the vehicle. Be sure to disable the vehicle before performing

any maintenance. Disabling includes removing the key from the key switch and removal of a battery wire.

- Insulate any tools used within the battery area in order to prevent sparks or battery explosion caused by shorting the battery terminals or associated wiring. Remove the battery or cover exposed terminals with an insulating material.
- Use specified replacement parts. Never use replacement parts of lesser quality.
- · Use recommended tools.
- Determine that tools and procedures not specifically recommended by the manufacturer will not compromise the safety of personnel nor jeopardize the safe operation of the vehicle.
- Support the vehicle using wheel chocks and jack stands. Never get under a vehicle that is supported by a jack. Lift the vehicle in accordance with the manufacturer's instructions.
- Empty the fuel tank or plug fuel hoses to prevent fuel leakage.
- Maintain the vehicle in an area away from exposed flame or persons who are smoking.
- Be aware that a vehicle that is not performing as designed is a potential hazard and must not be operated.
- Test drive the vehicle after any repairs or maintenance. All tests must be conducted in a safe area that is free of both vehicular and pedestrian traffic.
- Replace damaged or missing warning, caution or information labels.
- Keep complete records of the maintenance history of the vehicle.

The manufacturer cannot anticipate all situations, therefore people attempting to maintain or repair the vehicle must have the skill and experience to recognize and protect themselves from potential situations that could result in severe personal injury or death and damage to the vehicle. Use extreme caution and, if unsure as to the potential for injury, refer the repair or maintenance to a qualified mechanic.

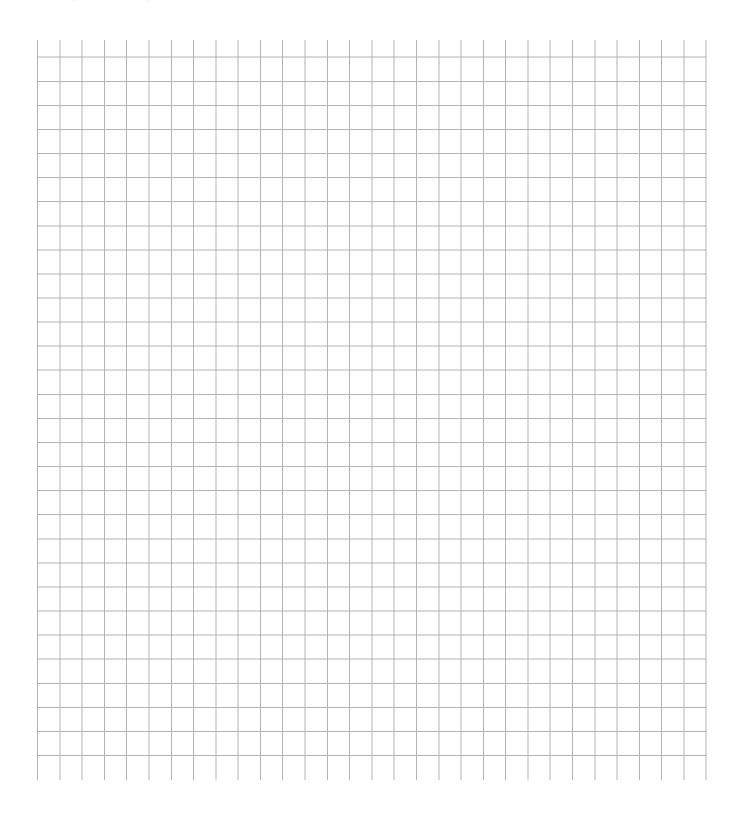
### **VENTILATION**

Always store gasoline vehicles in a well ventilated area. Ventilation prevents gasoline fumes from accumulating.

Never fuel a vehicle in an area that is subject to flame or spark. Pay particular attention to natural gas or propane water heaters and furnaces.

Never work around or operate a vehicle in an environment that does not ventilate exhaust gases from the area. Carbon monoxide is a dangerous gas that can cause unconsciousness and is potentially lethal.

## NOTES:



### **GENERAL**

The following text is provided as recommended by part II of ASME/ANSI B56.8-2005. E-Z-GO strongly endorses the contents of this specification.

### PART II FOR THE USER

### **4 GENERAL SAFETY PRACTICES**

#### 4.1 Introduction

**4.1.1** Like other machines, carriers can cause injury if improperly used or maintained. Part II contains broad safety practices applicable to carrier operations. Before operation, the user shall establish such additional specific safety practices as may reasonably be required for safe operation.

#### 4.2 Stability

- **4.2.1** Experience has shown that carriers which comply with the provisions stated in para. 7.3.9 are stable when properly operated and when operated in accordance with specific safety rules and practices established to meet actual operating terrain and conditions. However, improper operation, faulty maintenance, or poor housekeeping may contribute to a condition of instability and defeat the purpose of the standard. Some of the conditions which may affect stability are failure of the user to follow safety practices; also, ground and floor conditions, grade, speed, loading, the operation of the carrier with improper loads, battery weight, dynamic and static forces, and the judgement exercised by the carrier operator.
  - (a) The user shall train carrier operators to adhere strictly to the operating instructions stated in this Standard.
- (b) The user shall survey specific operating conditions and environment, and establish and train carrier operators to comply with additional, specific safety practices.

#### 4.3 Nameplates, Markings, Capacity, and Modifications

- **4.3.1** The user shall maintain in a legible condition all nameplates, warnings, and instructions which are supplied by the manufacturer.
- **4.3.2** The user shall not perform any modification or addition which affects capacity or safe operation, or make any change not in accordance with the owner's manual without the manufacturer's prior written authorization. Where authorized modifications have been made, the user shall ensure that capacity, operation, warning, and maintenance instruction plates, tags, or decals are changed accordingly.
- **4.3.3** As required under paras. 4.3.1 or 4.3.2, the manufacturer shall be contacted to secure new nameplates, warnings, or instructions which shall then be affixed in their proper place on the carrier.

### 4.4 Fuel Handling and Storage

- **4.4.1** The user shall supervise the storage and handling of liquid fuels (when used) to be certain that it is in accordance with appropriate paragraphs of ANSI/NFPA 505 and ANSI/NFPA 30.
- **4.4.2** Storage and handling of liquefied petroleum gas fuels shall be in accordance with appropriate paragraphs of ANSI/NFPA 505 and ANSI/NFPA 58. If such storage or handling is not in compliance with these standards, the user shall prevent the carrier from being used until such storage and handling is in compliance with these standards.

### 4.5 Changing and Charging Storage Batteries for Electric Personnel and Burden Carriers

**4.5.1** The user shall require battery changing and charging facilities and procedures to be in accordance with appropriate paragraphs of ANSI/NFPA 505.

**4.5.2** The user shall periodically inspect facilities and review procedures to be certain that appropriate paragraphs of ANSI/NFPA 505, are strictly complied with, and shall familiarize carrier operators with it.

#### 4.6 Hazardous Locations

- **4.6.1** The user shall determine the hazard classification of the particular atmosphere or location in which the carrier is to be used in accordance with ANSI/NFPA 505.
- **4.6.2** The user shall permit in hazardous areas only those carriers approved and of the type required by ANSI/NFPA 505.

#### 4.7 Lighting for Operating Areas

**4.7.1** The user, in accordance with his responsibility to survey the environment and operating conditions, shall determine if the carrier requires lights and, if so, shall equip the carrier with appropriate lights.

#### 4.8 Control of Noxious Gases and Fumes

**4.8.1** When equipment powered by internal combustion engines is used in enclosed areas, the atmosphere shall be maintained within limits specified in the American Conference of Governmental Industrial Hygienists publication, "Threshold Limit Values for Chemical Substances and Physical Agents in the Workroom Environment". This shall be accomplished by ventilation provided by the user, and/or the installation, use, and proper maintenance of emission control equipment recommended or provided by the manufacturer of the equipment.

### 4.9 Warning Device(s)

- **4.9.1** The user shall make periodic inspections of the carrier to be certain that the sound-producing and/or visual device(s) are maintained in good operating condition.
- **4.9.2** The user shall determine if operating conditions require the carrier to be equipped with additional sound-producing and/or visual devices and be responsible for providing and maintaining such devices, in accordance with the manufacturer's recommendations.

### 5 OPERATING SAFETY RULES AND PRACTICES

#### 5.1 Personnel and Burden Carrier Operator Qualifications

**5.1.1** Only persons who are trained in the proper operation of the carrier shall be authorized to operate the carrier. Operators shall be qualified as to visual, auditory, physical, and mental ability to safely operate the equipment according to Section 5 and all other applicable parts of this Standard.

#### 5.2 Personnel and Burden Carrier Operators' Training

- **5.2.1** The user shall conduct an operators' training program.
- **5.2.2** Successful completion of the operators' training program shall be required by the user before operation of the carrier. The program shall be presented in its entirety to all new operators and not condensed for those claiming previous experience.
  - **5.2.3** The user should include in the operators' training program the following:
  - (a) instructional material provided by the manufacturer;
  - (b) emphasis on safety of passengers, material loads, carrier operator, and other employees;
- (c) general safety rules contained within this Standard and the additional specific rules determined by the user in accordance with this Standard, and why they were formulated;
- (d) introduction of equipment, control locations and functions, and explanation of how they work when used properly and when used improperly, and surface conditions, grade, and other conditions of the environment in which the carrier

is to be operated;

(e) operational performance tests and evaluations during, and at completion of, the program.

### 5.3 Personnel and Burden Carrier Operator Responsibility

**5.3.1** Operators shall abide by the following safety rules and practices in paras. 5.4, 5.5, 5.6, and 5.7.

#### 5.4 General

- **5.4.1** Safeguard the pedestrians at all times. Do not drive carrier in a manner that would endanger anyone.
- **5.4.2** Riding on the carrier by persons other than the operator is authorized only on personnel seat(s) provided by the manufacturer. All parts of the body shall remain within the plan view outline of the carrier.
- **5.4.3** When a carrier is to be left unattended, stop carrier, apply the parking brake, stop the engine or turn off power, turn off the control or ignition circuit, and remove the key if provided. Block the wheels if machine is on an incline.
- **5.4.4** A carrier is considered unattended when the operator is 25 ft. (7.6 m) or more from the carrier which remains in his view, or whenever the operator leaves the carrier and it is not within his view. When the operator is dismounted and within 25 ft. (7.6 m) of the carrier still in his view, he still must have controls neutralized, and the parking brake(s) set to prevent movement.
  - **5.4.5** Maintain a safe distance from the edge of ramps and platforms.
  - **5.4.6** Use only approved carriers in hazardous locations, as defined in the appropriate safety standards.
  - **5.4.7** Report all accidents involving personnel, building structures, and equipment.
  - **5.4.8** Operators shall not add to, or modify, the carrier.
- **5.4.9** Carriers shall not be parked or left unattended such that they block or obstruct fire aisles, access to stairways, or fire equipment.

### 5.5 Traveling

- **5.5.1** Observe all traffic regulations, including authorized speed limits. Under normal traffic conditions keep to the right. Maintain a safe distance, based on speed of travel, from a carrier or vehicle ahead; and keep the carrier under control at all times.
- **5.5.2** Yield the right of way to pedestrians, ambulances, fire trucks, or other carriers or vehicles in emergency situations.
- **5.5.3** Do not pass another carrier or vehicle traveling in the same direction at intersections, blind spots, or at other dangerous locations.
  - **5.5.4** Keep a clear view of the path of travel, observe other traffic and personnel, and maintain a safe clearance.
- **5.5.5** Slow down or stop, as conditions dictate, and activate the sound-producing warning device at cross aisles and when visibility is obstructed at other locations.
  - **5.5.6** Ascend or descend grades slowly.
- **5.5.7** Avoid turning, if possible, and use extreme caution on grades, ramps, or inclines; normally travel straight up and down.
- **5.5.8** Under all travel conditions the carrier shall be operated at a speed that will permit it to be brought to a stop in a safe manner.
- **5.5.9** Make starts, stops, turns, or direction reversals in a smooth manner so as not to shift the load, endanger passengers, or overturn the carrier.
  - **5.5.10** Do not indulge in dangerous activities, such as stunt driving or horseplay.
  - **5.5.11** Slow down when approaching, or on, wet or slippery surfaces.

- **5.5.12** Do not drive carrier onto any elevator unless specifically authorized to do so. Approach elevators slowly, and then enter squarely after the elevator car is properly leveled. Once on the elevator, neutralize the controls, shut off power, and set parking brakes. It is advisable that all other personnel leave the elevator before a carrier is allowed to enter or exit.
  - **5.5.13** Avoid running over loose objects, potholes, and bumps.
- **5.5.14** To negotiate turns, reduce speed to improve stability, then turn hand steering wheel or tiller in a smooth, sweeping motion.

#### 5.6 Loading

- **5.6.1** Handle only stable and safely arranged loads. When handling off-center loads which cannot be centered, operate with extra caution.
  - **5.6.2** Handle only loads within the capacity of the carrier as specified on the nameplate.
- **5.6.3** Handle loads exceeding the dimensions used to establish carrier capacity with extra caution. Stability and maneuverability may be adversely affected.

#### 5.7 Operator Care of Personnel and Burden Carriers

- **5.7.1** At the beginning of each shift during which the carrier will be used, the operator shall check the carrier condition and inspect the tires, warning devices, lights, battery(s), speed and directional controllers, brakes, and steering mechanism. If the carrier is found to be in need of repair, or in any way unsafe, the matter shall be reported immediately to the designated authority and the carrier shall not be operated until it has been restored to safe operating condition.
- **5.7.2** If during operation the carrier becomes unsafe in any way, the matter shall be reported immediately to the designated authority, and the carrier shall not be operated until it has been restored to safe operating condition.
  - **5.7.3** Do not make repairs or adjustments unless specifically authorized to do so.
  - **5.7.4** The engine shall be stopped and the operator shall leave the carrier while refueling.
- **5.7.5** Spillage of oil or fuel shall be carefully and completely absorbed or evaporated and fuel tank cap replaced before starting engine.
  - **5.7.6** Do not operate a carrier with a leak in the fuel system or battery(s).
  - **5.7.7** Do not use open flames for checking electrolyte level in storage battery(s) or liquid level in fuel tanks.

#### 6 MAINTENANCE PRACTICES

#### 6.1 Introduction

**6.1.1** Carriers may become hazardous if maintenance is neglected. Therefore, maintenance facilities, trained personnel, and procedures shall be provided. Such facilities may be on or off the premises.

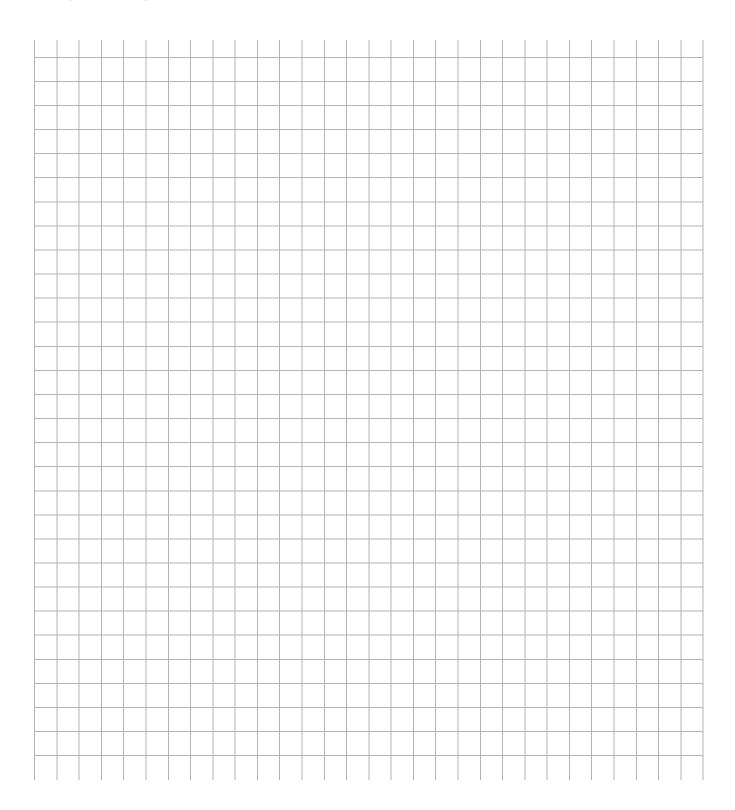
#### 6.2 Maintenance Procedures

- **6.2.1** Maintenance and inspection of all carriers shall be performed in conformance with the manufacturer's recommendations and the following practices.
  - (a) A scheduled preventive maintenance, lubrication, and inspection system shall be followed.
  - (b) Only qualified and authorized personnel shall be permitted to maintain, repair, adjust, and inspect carriers.
- (c) Before undertaking maintenance or repair, follow the manufacturer's recommendations for immobilizing the carrier.
  - (d) Block chassis before working underneath it.

- (e) Before disconnecting any part of the engine fuel system of a gasoline or diesel powered carrier with gravity feed fuel systems, be sure shutoff valve is closed, and run engine until fuel system is depleted and engine stops running.
- (f) Before disconnecting any part of the engine fuel system of LP gas powered carriers, close the LP gas cylinder valve and run the engine until fuel in the system is depleted and the engine stops running.
- (g) Operation to check performance of the carrier shall be conducted in an authorized area where safe clearance exists.
- (h) Before commencing operation of the carrier, follow the manufacturer's instructions and recommended procedures.
- (i) Avoid fire hazards and have fire protection equipment present in the work area. Do not use an open flame to check level or leakage of fuel, battery electrolyte, or coolant. Do not use open pans of fuel or flammable cleaning fluids for cleaning parts.
  - (j) Properly ventilate the work area.
- (k) Handle LP gas cylinders with care. Physical damage, such as dents, scrapes, or gouges, may dangerously weaken the tank and make it unsafe for use.
- (I) Brakes, steering mechanisms, speed and directional control mechanisms, warning devices, lights, governors, guards, and safety devices shall be inspected regularly and maintained in a safe operating condition.
- (m) Special carriers or devices designed and approved for hazardous area operation shall be inspected to ensure that maintenance preserves the original approved safe operating features.
- (n) Fuel systems shall be checked for leaks and condition of parts. If a leak is found, action shall be taken to prevent the use of the carrier until the leak has been eliminated.
- (o) The carrier manufacturer's capacity, operation, and maintenance instruction plates, tags, or decals shall be maintained in legible condition.
- (p) Batteries, motors, speed and directional controllers, limit switches, protective devices, electrical conductors, and connections shall be inspected and maintained.
- (q) Carriers shall be kept in a clean condition to minimize fire hazards and facilitate detection of loose or defective parts.
- (r) Modifications and additions which affect capacity and safe machine operation shall not be performed by the customer or user without manufacturer's prior written authorization; where authorized modifications have been made, the user shall ensure that capacity, operation, warning, and maintenance instruction plates, tags, or decals are changed accordingly.
- (s) Care shall be taken to ensure that all replacement parts are interchangeable with the original parts and of a quality at least equal to that provided in the original equipment.

END OF ASME/ANSI B56.8-2005 TEXT

## NOTES:



Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

Thank you for purchasing this vehicle. Before driving the vehicle, we ask you to spend some time reading this Owner's Manual and Service Guide. This guide contains the information that will assist you in maintaining this highly reliable vehicle. Some illustrations may show items that are optional for your vehicle. This guide covers the operation of several vehicles; therefore, some pictorial views may not represent your vehicle. Physical differences in controls will be illustrated.

This vehicle has been designed and manufactured as a 'World Vehicle'. Some countries have individual requirements to comply with their specifications; therefore, some sections may not apply in your country.

Most of the service procedures in this guide can be accomplished using common automotive hand tools. Contact your service representative on servicing the vehicle in accordance with the Periodic Service Schedule.

Service Parts Manuals and Technician's Repair and Service Manuals are available from a local Distributor, an authorized Branch or the Service Parts Department. When ordering parts or requesting information for your vehicle, provide vehicle model, serial number and manufacture code.

### **BEFORE INITIAL USE**

Read, understand and follow the safety label on the instrument panel. Be sure you understand how to operate the vehicle, its equipment and how to use it safely. Maintaining good performance depends to a large extent on the operator.

## **A WARNING**

Hydrogen gas is generated as a natural part of the lead acid battery charging process. A 4% concentration of hydrogen gas is explosive and could cause severe injury or death. Charging must take place in an area that is adequately ventilated (minimum of 5 air exchanges per hour).

To reduce the chance of battery explosion that could result in severe injury or death, never smoke around or charge batteries in an area that has open flame or electrical equipment that could cause an electrical arc.

Before a new vehicle is put into operation, the items shown in the INITIAL SERVICE CHART must be performed (Ref Fig. 1 on page 1).

Vehicle battery must be fully charged before initial use.

Check for correct tire inflation. See GENERAL SPECIFI-CATIONS.

Check for oil or fuel leaks that could have developed in shipment from the factory.

Determine and record braking distance required to stop vehicle for future brake performance tests.

Remove the protective clear plastic, that protect the seat bottom and back rest during shipping, before placing the vehicle in service.

ITEM	SERVICE OPERATION
Battery	Charge battery
Seats	Remove protective plastic covering
Brakes	Check operation and adjust if necessary
	Establish acceptable stopping distance
Tires	Check air pressure (see SPECIFICATIONS)
Fuel	Fill tank with correct fuel
Engine	Check oil level

Fig. 1 Initial Service Chart

### CONTROLS AND INDICATORS

Vehicle controls and indicators consist of:

- key/light switch
- direction selector
- choke
- accelerator pedal
- combination service and park brake pedal
- horn

### **KEY/LIGHT SWITCH**

Located on the dash panel, this switch enables the basic electrical system of the vehicle to be turned on and off by turning the key. To prevent inadvertent operation of the vehicle when left unattended, the key should be turned to the 'OFF' position and removed (Ref Fig. 2 on page 2).

If the vehicle is equipped with lights, the key switch has a position to operate them, indicated by the light icon.

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

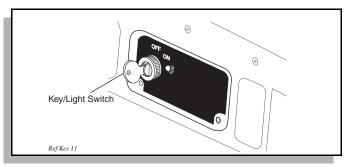


Fig. 2 Key / Light Switch

### NOTE

If the vehicle is equipped with factory installed custom accessories, some accessories remain operational with the key switch in the 'OFF' position.

### **DIRECTION SELECTOR**

### **A** CAUTION

To reduce the possibility of component damage, the vehicle must be completely stopped before moving the direction selector.

Located on the seat support panel, this lever permits the selection of either 'F' (forward) or 'R' (reverse) (Ref Fig. 3 on page 2). Vehicle should be left in 'F' when unattended.

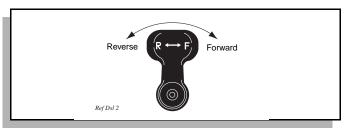


Fig. 3 Direction Selector

#### CHOKE

The choke is used to aid cold starting (Ref. Fig. 4 on page 2). See COLD STARTING section for operating instructions.

#### ACCELERATOR PEDAL



Unintentional movement of the accelerator pedal will release the park brake and may

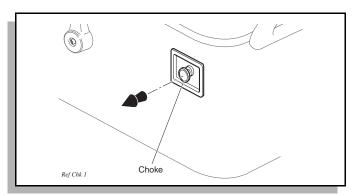


Fig. 4 Choke

## cause the vehicle to move which could result in severe injury or death.

With the key switch 'ON', depressing the accelerator pedal starts the engine. When the pedal is released, the engine will stop (Ref Fig. 5 on page 2). To stop the vehicle more quickly, depress the service brake.

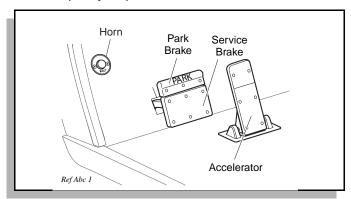


Fig. 5 Accelerator, Brake and Horn Controls

If key switch is 'ON' and park brake is set, depressing the accelerator inadvertently will release the park brake and will cause the vehicle to move which could cause severe injury or death.

Depressing the accelerator pedal will release the park brake if it is engaged. This is a feature to assure the vehicle is not driven with the park brake engaged. Depressing the accelerator pedal is **not** the preferred method of releasing the park brake.

#### NOTE

Depressing the **lower section of the brake pedal** is the preferred method of releasing the park brake to assure the longest service life of brake components.

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

## COMBINATION SERVICE AND PARK BRAKE PEDAL

The brake pedal incorporates a park brake feature (Ref Fig. 5 on page 2). To engage, push down on the upper section of the pedal until it locks in place. The park brake will release when the service brake pedal is depressed. Use the lower section of the brake pedal to operate the service brake system.

#### **HORN**

The horn is operated by pushing the horn button located on the floor to the left of the brake pedal (Ref Fig. 5 on page 2)

### PLASTIC LOAD BED

The manual lift bed is the standard bed for the vehicle. The bed may be equipped with an optional electric lift switch.

## **A WARNING**

Failure to follow these instructions may result in personal injury, damage the vehicle and/or cause the vehicle to tip over. Operate the vehicle with awareness of the load. Read, understand and follow the Danger label affixed to the front of the load bed.

Do not permit anyone to ride in the bed.

## Before operating, check to ensure no one is behind the vehicle.

A load bed warning label is affixed to the inside front of the bed (see Appendix A). This label must be understood and observed at all times for safe operation of the vehicle. See the load bed warning label for maximum load. The load must be positioned in the bed as far forward as possible, distributed in such a way that its center of gravity must not be higher than height noted on label, and securely fastened down. Failure to follow these instructions may result in severe personal injury, damage the vehicle and/or cause the vehicle to tip over. Operate the vehicle with awareness of the load.

Do not permit anyone to ride in the bed.

Do not drive the vehicle with the load bed raised or with the tailgate unsupported.

## **AWARNING**

Never fill a gas can in the bed of a vehicle. Static discharge could ignite gasoline vapor and cause an explosion.

Always place a gas can on the ground before filling. Never fill a gas can in the bed of the vehicle. Static electricity is built up during the fueling process and could discharge causing the gasoline vapor to ignite.

#### MANUAL LIFT BED OPERATION

## **WARNING**

Exercise caution while operating the manual lift bed to ensure the bed is not released during lifting or lowering procedure. Severe injury could result if bed is released and traps fingers or other body parts.

To raise the manual lift bed, pull back on the latch release handle immediately behind the driver seat (Ref Fig. 6 on page 3). Raise the bed using the handle on the side of the bed.

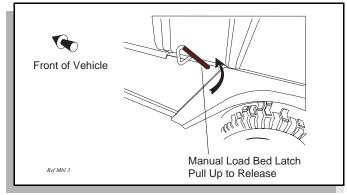


Fig. 6 Manual Bed Latch

To lower the manual lift bed, grasp the bed handle and lower the bed to the rest position. Be sure hands are not trapped by the bed.

### **TAIL GATE OPERATION**

To open the tail gate, lift tail gate straight up with a sharp upward pull to lift out of the closed position and pivot out for open position. To remove the tail gate, remove the side cables from the loadbed and open tail gate until it is

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

straight down, move tail gate panel straight up to remove from pins and remove from the load bed. Reassemble in reverse order.

### **OPERATING THE VEHICLE**



### CAUTION

Improper use of the vehicle or the lack of proper maintenance may result in damage or decreased performance.

Read and understand the following warnings before attempting to operate the vehicle.

## **WARNING**

To reduce the possibility of severe injury or death resulting from loss of vehicle control, the following warnings must be observed:

When driving vehicle, consider the terrain, traffic conditions and the environmental factors which effect the terrain and the ability to control the vehicle.

Use extra care and reduced speed when driving on poor surfaces, such as loose dirt, wet grass, gravel, etc.

Stay in designated areas and avoid extremely rough terrain.

Maintain a safe speed when driving down hill. Use service brake to control speed when traveling down an incline. A sudden stop or change of direction may result in loss of control.

Slow down before and during turns. All turns should be made at reduced speed.

Never drive vehicle up, down, or across an incline that exceeds 14° (25% grade).

## **A** WARNING

To reduce the possibility of severe injury or death resulting from improper vehicle operation, the following warnings must be

#### observed:

Refer to GENERAL SPECIFICATIONS for seating capacity.

Depressing accelerator pedal will release foot operated park brake and may cause inadvertent vehicle movement. Turn the key to the 'OFF' position whenever the vehicle is parked.

To prevent inadvertent movement when the vehicle is to be left unattended, engage the park brake, move direction selector to forward position, turn key to 'OFF' position and remove key.

Make sure that the direction selector is in correct position before attempting to start the vehicle.

Always bring the vehicle to a complete stop before shifting the direction selector.

Do not take vehicle out of 'gear' while in motion (coast).

Check the area behind the vehicle before operating in reverse.

All occupants must be seated. Keep entire body inside vehicle and hold on while vehicle is in motion.

#### **RUN-IN**

Check for oil or fuel leaks that could have developed in shipment from the factory. Avoid full throttle starts and rapid acceleration until the engine has achieved operating temperature.

All engines consume more oil than normal during the first hours of operation. As internal moving parts are run-in, oil consumption should gradually decrease until the rate of consumption stabilizes.

Check the oil level per the Periodic Service Schedule. Add oil if the level on the dipstick indicates that oil is in the add oil range (Ref Fig. 7 on page 5).

### A

### CAUTION

Do not overfill engine. Too much oil may cause smoking or allow oil to enter the air filter enclosure.

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

### NOTE

The oil dipstick/fill cap must be in place before operating the engine. Failure to install the dipstick/fill cap will result in oil becoming contaminated and/or being discharged into the engine compartment.

Oil Dipsticks are unique to this model vehicle. Do not interchange oil dipsticks between models.

The oil should be changed in accordance with the Periodic Service Schedule while the engine is warm. See SERVICE AND MAINTENANCE for checking oil level and changing oil procedures.

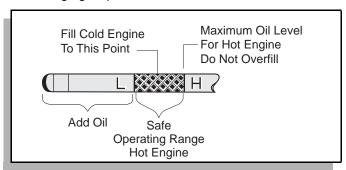


Fig. 7 Check Oil Level on Dipstick

#### **COLD STARTING**

Starting a cold engine **may** require use of the choke. Depress the accelerator approximately 1" (2.5 cm) or until the starter just begins to operate. Pull the choke out if required. Accelerate slowly and push the choke in completely when the engine runs smoothly.

### **A** CAUTION

Do not allow the starter to operate continuously for more than 10 seconds. Allow 30 seconds between starting attempts. If the vehicle does not start on the third attempt, turn the key switch off, set the park brake and determine the cause of the problem.

If the vehicle had been running and the engine does not start within 10 seconds, use the choke.

#### STARTING AND DRIVING



To reduce the possibility of roll-back which

could result in severe injury or vehicle damage, do not release service brake until engine has started.

To operate vehicle:

- Apply the service brake, place the key in the key switch and turn it to the 'ON' position.
- Move the direction selector to the direction desired.
- Release the park brake by depressing the service brake pedal until the park brake releases.
- Slowly depress the accelerator pedal to start the engine. Release service brake when engine starts.
- When the accelerator pedal is released, the ignition circuit is de-energized and the engine stops.
   To stop the vehicle more quickly, depress the service brake pedal.

### NOTE

When the direction selector is in the reverse position, a warning signal will sound to indicate that the vehicle is ready to run in reverse.

#### STARTING THE VEHICLE ON A HILL

## **A** WARNING

To reduce the possibility of roll-back which could result in severe injury or vehicle damage, do not release service brake until engine has started.

### A CAUTION

Do not hold vehicle on hill by using accelerator and engine. This will cause premature and excessive wear to drive train components.

To reduce the possibility of permanent damage to the drive system, it is important to prevent excessive rollback when starting the vehicle on a hill.

Place left foot on service brake and release the park brake. Depress accelerator with right foot and release the service brake by lifting left foot.

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

#### COASTING

## **WARNING**

To reduce the possibility of severe injury or death from coasting at above recommended speeds, limit speed with service brake.

On steep hills, it is possible for the vehicle to coast at greater than normal speeds encountered on a flat surface. To reduce the possible loss of vehicle control and severe drivetrain damage, speeds should be limited to no more than the maximum governed speed on level ground (see GENERAL SPECIFICATIONS). Limit speed by applying service brake.

#### **FUEL**

## **WARNING**

To reduce the possibility of severe injury or death from improper fuel handling:

Do not smoke near the fuel tank.

Do not refuel near open flame or electrical items which could produce a spark.

Always handle gasoline in a well ventilated area.

Always wear eye protection to protect against splashed fuel and fuel vapors.

Always allow adequate space for the expansion of gasoline. Leave at least 1" (2.5 cm) space below bottom of filler neck.

Inspect fuel cap, tank and other components for leaks or deterioration that could cause a hazardous condition.

The fuel tank is located under the seat on the passenger side of the vehicle (Ref Fig. 8 on page 6). Fill the tank with fresh, clean, automotive grade gasoline (Ref Fig. 33 on page 23). High altitude or heavy use/load applications may benefit from higher octane gasoline.

**Do not** use gasoline which contains Methanol.



Some fuels, called oxygenated or reformulated gasoline,

are gasoline blended with alcohols or ethers. Excessive amounts of these blends can damage the fuel system or cause performance problems. If any undesirable operating symptoms occur, use gasoline with a lower percentage of alcohol or ether.

Use fresh regular grade unleaded fuel. Ethanol blend fuels upto 10% are permissable

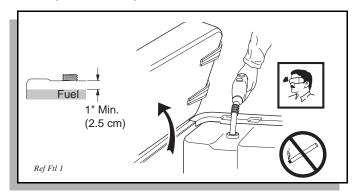


Fig. 8 Fueling

#### **BATTERY**

## **A** CAUTION

Excessive use of accessories may drain the battery and leave insufficient reserve to start the vehicle.

The vehicle uses a combination starter/generator to both start the engine and charge the battery. The engine will not idle; therefore, the battery cannot be charged while the vehicle is stopped. Do not operate accessory items (such as lights) excessively while the vehicle is stopped.

The generator is capable of supplying 35 amps; therefore, operation of all accessories could result in the discharge of the battery even though the engine is running and the generator operating. Discharging the battery is known as deep cycling. The battery is not a deep cycle model, but is a starting battery. Multiple deep cycling will result in the premature failure of the battery.

If the vehicle battery has become discharged, it must be charged using a 12 volt charger that is rated at 10 amps or less and in accordance with all instructions provided by the manufacturer of the charger.

#### LABELS AND PICTOGRAMS

Vehicles may be labeled with pictograms as a method of conveying information or warnings. Appendix A illustrates and explains pictograms that may appear on the

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

vehicle. Not all pictograms shown in Appendix A will be found on your vehicle.

### SUN TOP AND WINDSHIELD

## **WARNING**

The sun top does not provide protection from roll over or falling objects.

The windshield does not provide protection from tree limbs or flying objects.

### **A** CAUTION

To prevent damage to the vehicle, do not hold on to sun top struts and stand on body panels.

The sun top and windshield provide some protection from the elements; however, they will not keep the operator and passenger dry in a downpour. This vehicle is not equipped with seat belts and the sun top has not been designed to provide roll over protection. In addition, the sun top does not protect against falling objects nor does the windshield protect against flying objects and tree limbs. Keep arms and legs inside of vehicle while it is moving.

#### **TOWING A TRAILER**

The vehicle is equipped with a receiver that can be fitted with a standard 1 7/8" ball. The trailer and its load must not exceed 500 lbs (227 kg) and no more than 50 lbs (23 kg) tongue weight may be attached to the hitch. Remember that the overall capacity of the vehicle, operator, passenger, contents of load bed and accessories must be reduced to compensate for the trailer and load.

The range of motion of the trailer is limited by the ball and hitch. The trailer should not be used on rough trails or over objects such as logs, large rocks, holes, etc.

Never install baskets or extensions using the hitch receivers (front or rear). Such items will change the performance characteristics of vehicle and result in unsafe handling, possible roll over or vehicle damage.

## VEHICLE CLEANING AND CARE VEHICLE CLEANING

## **WARNING**

To reduce the possibility of severe injury or vehicle damage, read and understand all instructions supplied by manufacturer of pressure washer.

### **A** CAUTION

When pressure washing exterior of vehicle, do not use pressure in excess of 700 psi. To reduce the possibility of cosmetic damage, do not use any abrasive or reactive solvents to clean plastic parts.

It is important that proper techniques and cleaning materials be used. Using excessive water pressure may cause severe injury to operator or bystander, damage to seals, plastics, seat material, body finish or electrical system. Do not use pressure in excess of 700 psi to wash exterior of vehicle.

Clean windshield with lots of water and a clean cloth. Minor scratches may be removed using a commercial plastic polish or Plexus<sup>®</sup> plastic cleaner available from the service parts department.

Normal cleaning of vinyl seats and plastic or rubber trim requires the use of a mild soap solution applied with a sponge or soft brush and wipe with a damp cloth.

Removal of oil, tar, asphalt, shoe polish, etc. will require the use of a commercially available vinyl/rubber cleaner.

The painted surfaces of the vehicle provide attractive appearance and durable protection. Frequent washing with lukewarm or cold water and mild detergent is required to preserve the painted surfaces.

Occasional cleaning and waxing with non-abrasive products designed for 'clear coat' automotive finishes will enhance the appearance and durability of the painted surfaces.

Corrosive materials used as fertilizers or for dust control can collect on the underbody of the vehicle. These materials will cause corrosion of underbody parts unless flushed occasionally with plain water. Thoroughly clean any areas where mud or other debris can collect. Sediment packed in closed areas should be loosened to ease

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

it's removal, taking care not to chip or otherwise damage paint.

### NOTE

If the engine does not start or runs improperly after washing, remove the spark plug wires (by pulling the spark plug boots, never the wires). Dry all connections with forced air. Reinstall the wires.

### **REPAIR**

#### LIFTING THE VEHICLE

Tool List	Qty. Required
Floor jack	1
Jack stands	4
Chocks	4

Some servicing operations may require the front wheels, the rear wheels, or the entire vehicle be raised.

## **AWARNING**

To reduce the possibility of severe injury or death from a vehicle falling from a jack:

Be sure the vehicle is on a firm and level surface.

Never get under a vehicle while it is supported by a jack.

Use jack stands and test the stability of the vehicle on the stands.

Always place chocks in front and behind the wheels not being raised.

Use extreme care since the vehicle is extremely unstable during the lifting process.

### CAUTION

When lifting vehicle, position jacks and jack stands at the areas indicated only.

To raise the entire vehicle, install chocks in front and behind each front wheel (Ref Fig. 9 on page 8). Center the jack under the rear frame crossmember. Raise the vehicle enough to place a jack stand under the outer ends of the rear axle.

Lower the jack and test the stability of the vehicle on the two jack stands.

Place the jack at the center of the front axle. Raise the vehicle enough to place jack stands under the frame crossmember as indicated.

Lower the jack and test the stability of the vehicle on all four jack stands.

If only the front or rear of the vehicle is to be raised, place the chocks in front and behind each wheel not being raised to stabilize the vehicle.

Lower the vehicle by reversing the lifting sequence.

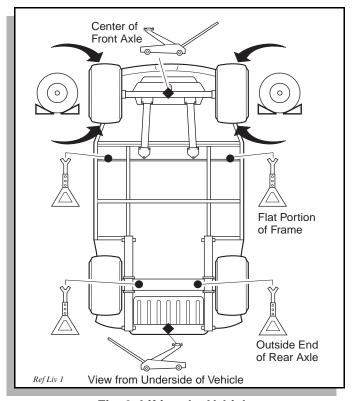


Fig. 9 Lifting the Vehicle

#### WHEELS AND TIRES

### Tire Repair

Tool List	Qty. Required
Lug wrench, 3/4"	1
Impact socket, 3/4", 1/2" drive	1
Impact wrench, 1/2" drive	1
Torque wrench. 1/2" drive	1

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

## **A** WARNING

A tire explosion can cause severe injury or death. Never exceed inflation pressure rating on tire sidewall.

To reduce the possibility of tire explosion, pressurize tire with small amount of air applied intermittently to seat beads. Due to the low volume of the small tires, overinflation can occur in seconds. Never exceed the tire manufacturer's recommendation when seating a bead. Protect face and eyes from escaping air when removing valve core.

To reduce the possibility of severe injury caused by a broken socket when removing wheels, use only sockets designed for impact wrench use.

Use caution when inflating tires. Overinflation could cause the tire to separate from the wheel or cause the tire to explode, either of which could cause severe injury.

Do not use low inflation pressure tires on any E-Z-GO vehicle. Do not use any tire which has a recommended inflation pressure less than the inflation pressure recommended in Owner's Manual.

Use caution when inflating tires. Due to the low volume of the small tires, overinflation can occur in seconds. Overinflation could cause the tire to separate from the wheel or cause the tire to explode.

Tire inflation should be determined by the condition of the terrain. See GENERAL SPECIFICATIONS section for recommended tire inflation pressure. For outdoor applications with major use on grassy areas, the following should be considered. On hard turf, it is desirable to have a **slightly** higher inflation pressure. On very soft turf, a lower pressure reduces the possibility of tires cutting into the turf. For vehicles being used on paved or hard surfaces, tire inflation pressure should be in the higher allowable range, but under no condition should inflation pressure be higher than recommended on tire sidewall. **All four tires** should have the same pressure for optimum handling characteristics. Be sure to install the valve dust cap after checking or inflating.

The vehicle is fitted with low pressure tubeless tires mounted on one piece rims; therefore, the most cost

effective way to repair a puncture in the tread is to use a commercial tire plug.

### NOTE

Tire plug tools and plugs are available at most automotive parts outlets and have the advantage of not requiring the tire be removed from the wheel.

If the tire is flat, remove the wheel and inflate the tire to the maximum recommended pressure for the tire. Immerse the tire in water to locate the leak and mark with chalk. Insert tire plug in accordance with manufacturer's instructions.

### **A** WARNING

To reduce possibility of severe injury, be sure mounting/demounting machine is anchored to floor. Wear OSHA approved safety equipment when mounting/demounting tires.

If the tire is to be removed or mounted, the tire changing machine manufacturer's recommendations must be followed in order to reduce possibility of severe injury.

### Wheel Installation

### A CAUTION

To reduce the possibility of component damage, do not tighten lug nuts to more than 85 ft. lbs. (115 Nm) torque.

#### NOTE

It is important to follow the 'cross sequence' pattern when installing lug nuts. This will assure even seating of the wheel against the hub.

With the valve stem to the outside, mount the wheel onto the hub with lug nuts. Finger tighten lug nuts in a 'cross sequence' pattern (Ref Fig. 10 on page 10) . Tighten lug nuts to 50 - 85 ft. lbs. (70 - 115 Nm) torque in 20 ft. lbs. (30 Nm) increments following the 'cross sequence' pattern.

#### HEADLIGHT REPLACEMENT

For vehicles with headlights mounted in cowl, locate the two screws on backside of cowl that secure headlight

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

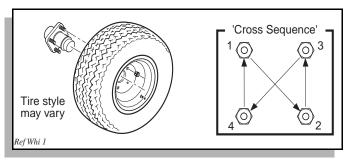


Fig. 10 Wheel Installation

(Ref Fig. 11 on page 10). Remove screws, pull headlight out and disconnect wires. Connect wires to new headlight, install in cowl and secure with screws previously removed.

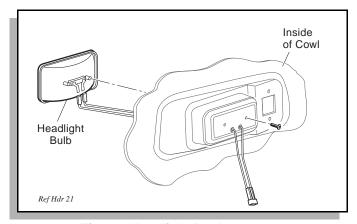


Fig. 11 Headlight Replacement

#### **FUSE REPLACEMENT**

To replace fuses, locate the fuse block under the driver side seat. Pull out old fuse and replace with a new automotive type fuse. Headlights and fuses are available from a local Distributor, an authorized Branch or the Service Parts Department.

### VEHICLE WITH A DISCHARGED BATTERY



To reduce the possibility of severe injury or death from inadvertent motion, do not attempt to 'jump start' a vehicle.

The vehicle is equipped with a starter/generator and does not idle. When starting the engine, the starter/generator functions as a starter and with the engine running, it functions as a generator.

With the short running times associated with this kind of vehicle, the generator is more than adequate to maintain the battery charge level. The generator is not designed to charge a discharged battery.

When engine starts, the clutches engage and cause vehicle to move making 'jump starting' both dangerous and impractical.

If the vehicle battery has become discharged, it must be charged using a 12 volt charger that is rated at 10 amps or less. Read and understand all instructions provided by the manufacturer of the charger.

## TRANSPORTING VEHICLE TOWING

## **A WARNING**

### This vehicle is not designed to be towed.

It is recommended that the vehicle be moved by placing the entire vehicle on a trailer, flatbed truck or other suitable transport.

### **NEUTRAL LOCK**

To prevent the driven clutch from turning the rear wheels during service operations, a neutral lock is located on the direction selector.

### To operate:

Turn key switch to 'OFF' and lift seat. Pull out and rotate the neutral lock pin handle so that the pointed portion of the handle is to the side of the direction selector cam (Ref Fig. 12 on page 11). Move direction selector towards the area between 'F' and 'R'. During that motion, the pin will snap into the hole in the direction selector mounting bracket preventing any movement. When in this position, the direction selector remains locked in the neutral position. To unlock the direction selector, pull the neutral lock pin handle out and rotate until the pointed portion of the handle fits into the hole in the direction selector cam.

### **HAULING**



To reduce the possibility of severe injury or death while transporting vehicle:

Secure the vehicle and contents.

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

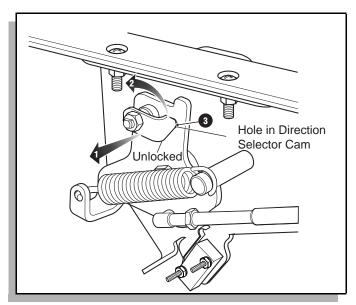


Fig. 12 Neutral Lock

Never ride on vehicle being transported. Always remove windshield before transporting.

Maximum speed with sun top installed is 50 mph (80 kph).

If the vehicle is to be transported at highway speeds, the sun top must be removed and the seat bottom secured. When transporting vehicle below highway speeds, check for tightness of hardware and cracks in sun top at mounting points. Always remove windshield when transporting. Always check that the vehicle and contents are adequately secured before transporting. The rated capacity of the trailer or truck must exceed the weight of the vehicle (see GENERAL SPECIFICATIONS for vehicle weight) and load. Lock the park brake and secure the vehicle using ratchet tie downs.

### **SERVICE AND MAINTENANCE**

## **AWARNING**

To reduce the possibility of severe injury or death from improper servicing techniques:

Do not attempt any type of servicing operations before reading and understanding all notes, cautions and warnings in this manual.

Any servicing requiring adjustments to be made to the powertrain while the engine is running must be made with both drive wheels raised and vehicle properly supported on jack stands.

To reduce the possibility of engine damage, never operate vehicle at full throttle for more than 4 - 5 seconds while vehicle is in a 'no load' condition.



Wear eye protection when working on the vehicle. Use extra care when working around batteries, or using solvents or compressed air.

To reduce the possibility of causing an electrical arc, which could result in a battery explosion, turn off all electrical loads from the battery before removing battery wires.



Wrap wrenches with vinyl tape to reduce the possibility of a dropped

wrench 'shorting out' a battery, which could result in an explosion.

Reduce the possibility of accidental starting by removing and grounding spark plug wires and disconnecting battery at negative terminal before servicing.

The electrolyte in a battery is an acid solution which can cause severe burns to the skin and eyes. Treat all electrolyte spills to the body and eyes with extended flushing with clear water. Contact a physician immediately.

Any electrolyte spills should be neutralized with a solution of 2 teaspoons (10 ml) sodium bicarbonate (baking soda) dissolved in 1 quart (1 liters) of water and flushed with water.

Aerosol containers of battery terminal protectant must be used with extreme care. Insulate metal container to reduce the possibility of can contacting battery terminals which could result in an explosion.

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

### **A** CAUTION

It is in the best interest of both vehicle owner and service technician, to carefully follow the procedures recommended in this manual. Preventative maintenance, applied at recommended intervals, is the best guarantee for keeping the vehicle both dependable and economical.

This vehicle will give years of satisfactory service, providing it receives regular maintenance. Refer to the Periodic Service Schedule for appropriate service intervals (Ref Fig. 14 on page 13). Refer to Lubrication Points for appropriate lubrication locations (Ref Fig. 31 on page 21).

To prolong vehicle life, some maintenance items must be serviced more frequently on vehicles used under severe driving conditions such as extreme temperatures, extreme dust/debris conditions, frequent use with maximum load.

To access powertrain for routine maintenance, lift or remove seat. For major repair, refer to appropriate Technician's Repair and Service Manual.

Some service procedures may require the vehicle to be lifted. Refer to LIFTING THE VEHICLE for proper lifting procedure and safety information.

#### SERIAL NUMBER LABEL LOCATION

Two serial number and manufacture date code label are on the vehicle. One is placed on the body below the driver side seat. The other is located on the chassis under the seat(Ref. Fig. 13 on page 12)

Design changes take place on an ongoing basis. In order to obtain correct components for the vehicle, the manufacture date code, serial number and vehicle model must be provided when ordering service parts.

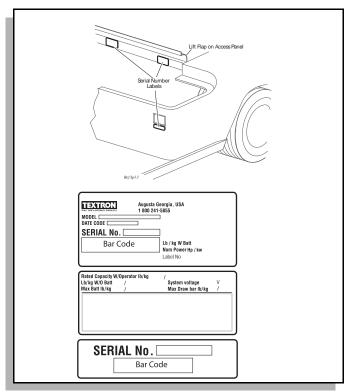


Fig. 13 Serial Number Label Location

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

### PERIODIC SERVICE SCHEDULE

✓ Check ♦ Clean, Adjust, etc				
To perform service that is listed in this schedule but not described in this manual, contact a local Service Representative or see the Repair and Service Manual for this vehicle.				
	ust be serviced more frequently on vehicles used under severe driving conditions			
NOTE: Some maintenance items ma	ot be derived mere frequency of vertided adda and devero arriving defractions			
DAILY				
	BEFORE USE:			
	√ Check service brake general operation			
	✓ Check park brake operation - does it hold on a hill.			
	✓ Check warning device function in reverse			
	✓ Check tire pressure, condition of tires & rims.			
	✓ Check smooth operation of accelerator.			
	✓ Check for loose or missing hardware.			
	<ul> <li>✓ Check Battery - state of charge, condition, loose terminals, corrosion, hold down &amp; hardware</li> </ul>			
	✓ Check overall vehicle condition			
	C. Col. Of Gran Formation Colleges			
WEEKLY (includes items listed in previous table & the following)				
TIRES	Examine for cuts, excessive wear and pressure (See GENERAL SPECIFICATIONS)			
WHEELS	✓ Check for bent rims, missing or loose lug nuts			
COOLING FAN	✓ Check for build-up of foreign matter inside blower housing and fins, clean if required			
ENGINE OIL	✓ Check and add if required - DO NOT OVERFILL			
STARTER/GENERATOR BELT	✓ Check for tension, wear, cracks			
MONTHLY - 20	MONTHLY - 20 HOURS (includes items listed in previous table & the following)			
WIRING	✓ Check all wiring for loose connections and broken/missing insulation			
ACCELERATOR	✓ Check for smooth movement - DO NOT LUBRICATE CABLE			
SERVICE BRAKE (MECHANICAL BRAKES)	✓ Conduct brake performance test			
PARK BRAKE	✓ Check brake performance and adjust if required			
CHOKE CABLE	✓ Check for smooth movement and adjustment - DO NOT LUBRICATE CABLE			
CARBURETOR LINKAGE	✓ Check attachment, adjust as required			
DIRECTION SELECTOR	✓ Check attachment, adjust as required			
ENGINE	✓ Check for unusual noise, vibration, acceleration, oil leaks			
COOLING FAN	Check for build-up of foreign matter inside blower housing and fins, clean if required			
STEERING ASSEMBLY	✓ Check for abnormal play, tightness of all hardware			
TIE ROD/LINKAGES	✓ Check for excessive play, bent components or loose connections			
REAR AXLE	✓ Check for leakage, add SAE 30 oil as required			
QUARTERLY - 60 HOURS (includes items listed in previous tables & the following)				
FRONT AXLE	✓ Check for damage to axle and loose or missing hardware			
FRONT SHOCK ABSORBERS	✓ Check for oil leakage and loose fasteners			
FRONT SPRINGS	✓ Check for loose hardware, cracks at attachments			

Fig. 14 Periodic Service Schedule

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

PARK BRAKE	<ul> <li>✓ Check for bent/binding linkage rod</li> <li>✓ Check for damage or wear to latch arm or catch bracket</li> </ul>
17WK BIVWE	♦ Lubricate as required, use light oil. DO NOT LUBRICATE CABLES OR BRAKE LATCH
REAR SHOCK ABSORBERS	✓ Check for oil leakage, loose mounting hardware
ENGINE ELECTRICAL SYSTEM	✓ Check coil/spark plug wires for cracks/loose connections
FUEL SYSTEM	✓ Check for leaks at tank, cap, system lines, filters, pump, carburetor
FUEL SYSTEM	✓ Check system lines for cracks/deterioration
THROTTLE/GOVERNOR LINKAGE	✓ Check operation and governed speed
LIADDWADE AND FACTENEDS	✓ Check for loose or missing hardware and components
HARDWARE AND FASTENERS	♦ Tighten or replace missing hardware
	125 HOURS (includes items listed in previous tables & the following)
BATTERY	♦ Clean battery & terminals
DIRECTION SELECTOR	✓ Check for wear and smooth movement (lubricate shaft with light oil if required)
KING PINS	✓ Check for excessive play and tightness of retaining nuts
STEERING ASSEMBLY	✓ Check bellows and pinion seal for damage or grease leakage
RACK END BALL JOINT	♦ Lubricate, use wheel bearing grease
REAR AXLE	✓ Check for unusual noise and loose or missing mounting hardware
AIR FILTER ELEMENT	✓ Check filter element, clean/replace as required
OIL FILTER	▲ Replace (at oil change)
ENGINE OIL	▲ Replace with SAE 10W-30 or 10W-40 that meets or exceeds SF, SG, CC oil, DO NOT OVERFILL
DRIVE BELT	✓ Check for cracks, fraying and excessive wear
ANNUAL - 250-3	00 HOURS (includes items listed in previous tables & the following)
FRONT WHEEL BEARINGS	✓ Check and adjust as required, see Technician's Repair and Service Manual
REAR AXLE	✓ Check lubricant, add lubricant (Ref Fig. 33 on page 23) as required
	♦ Clean and adjust, see Technician's Repair and Service Manual
SERVICE BRAKES	✓ Check brake shoe linings, see Technician's Repair and Service Manual
	✓ Check level, add if required (DOT 3) and check for leakage
FUEL FILTER	▲ Replace
SPARK PLUG	▲ Replace, gap new plug (Ref Fig. 33 on page 23)
MUFFLER/EXHAUST	✓ Check mounting hardware; check for leaks at head and muffler gaskets
VALVES	✓ Check cold (intake/exhaust) per Technician's Repair and Service Manual
500 HOURS (inclu	des items listed in previous tables & the following)
CARBURETOR	♦ Clean
CYLINDER HEAD AND PISTON	<ul> <li>Remove carbon from cylinder head and pistons</li> <li>✓ Check valve seats for carbon buildup and clean as required</li> </ul>
	Check valve seats for carbon buildup and clean as required

Fig. 14 Periodic Service Schedule

### TIRE INSPECTION

Tire condition should be inspected per the Periodic Service Schedule (Ref. Fig. 14 on page 13). Inflation pressures should be checked when the tires are cool. Be sure to install the valve dust cap after checking or inflating.

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

### FOUR CYCLE ENGINE

### **Engine Specifications**

Engine model	FJ400D
Туре	Four cycle, OHV
Number of cylinders	1
Displacement	401 cc
Rated horsepower	13 hp
Spark plug type	NGK BPR2ES
Spark plug gap	028"031" (.7080 mm)
Cooling	Forced air cooled
Oil Filter	Cartridge type full flow filter
Oil Pump	Positive displacement pump

### **Engine Description**

The engine is an air cooled, 4-stroke, OHV, single cylinder gasoline engine. It incorporates a pressure fed lubrication positive displacement oil pump with a cartridge type full flow oil filter and a counter rotating balance shaft.

### **CHECKING THE OIL LEVEL**

### **A** CAUTION

Do not overfill engine. Too much oil may cause engine to smoke or spark plug fouling.

Do not overfill engine. Too much oil may cause smoking or allow oil to enter the air filter enclosure.

The oil should be checked with the engine warm. The vehicle should be on a level surface with the parking (PARK) brake engaged. Allow adequate time for oil to drain into the crankcase before checking.

Remove the dipstick and wipe off the entire area with a lint free cloth (Ref Fig. 15 on page 15).

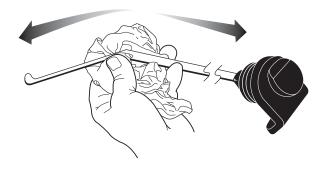


Fig. 15 Clean Entire Dipstick

Insert the dipstick **fully** into the dipstick hole and remove. Examine the level of the oil on the dipstick.

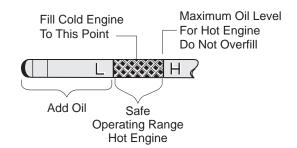


Fig. 16 Check Oil Level on Dipstick

The engine can be operated safely as long as oil is within the safe operating range as indicated on the dip stick. **Do not operate vehicle if oil level is below the safe area indicated on the dipstick.** 

Oil should be added to bring the level into the safe operating range. Remember that oil expands as it gets hot, **Do not overfill** (Ref Fig. 16 on page 15). Check that the oil cap is firmly in place.

#### NOTE

When adding oil between oil changes, do not mix brands and viscosity grades of oil.

The oil dipstick/fill cap must be in place before operating the engine. Failure to install the dipstick/fill cap will result in oil becoming contaminated and/or oil being discharged into the engine compartment.

### Changing the Oil

Tool List	Qty. Required
Socket, 3/8" drive	1
Ratchet, 3/8" drive	1
Extension, 3/8" drive, 8"	1
Oil drain pan	1
Wrench 3/4"	1

For maximum performance and longevity, the engine oil should be replaced after the first 8 hours of operation. After the initial oil change, it should be changed every 125 hours of operation or semi-annually, whichever comes first.

The selection of oil is dependent upon the service that the vehicle will perform. Most vehicles require 10W-30 oil, whereas vehicles used at capacity or near capacity load applications will utilize 10W-40 oil after a break-in period of 100 hours (Ref Fig. 17 on page 16).

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

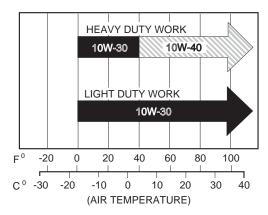


Fig. 17 Oil Viscosity Chart

### NOTE

If vehicle is to be stored over winter months, it can be stored with old oil left in engine. The oil should be changed as part of spring maintenance. This will remove any moisture that has accumulated during storage.

## **MWARNING**

Be aware that engine fluids may be hot and contact to the skin may cause severe burns. Wear rubber gloves to protect skin from exposure to the old oil and degreaser.

The oil should be changed with engine warm. Park vehicle on a level surface, engage parking brake and remove key. Place a drain pan under engine. Wipe top of the engine clean with a cloth (Ref Fig. 18 on page 16). Remove the oil fill cap.



Fig. 18 Cleaning Top of Engine

Clean the area around filter. Using a filter wrench, strap wrench or other suitable wrench (A), remove the filter (B) from the engine and allow the oil to drain. The 'O' rings may remain on engine or filter (Ref Fig. 19 on page 16)

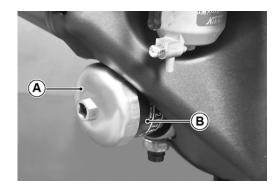


Fig. 19 Remove Oil Filter

Inspect the filter. Make sure the 'O' ring is not left on the engine surface.

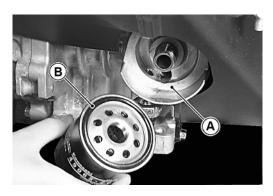


Fig. 20 Inspect Oil Filter

### **WARNING**

Be careful of hot oil when drained. It may be hot enough to burn you severely

Drain the oil by removing the drain plug found at the rear of the engine base. Remove using a 3/4" wrench. At the first oil change, **small** metal chips and lint may be found. This is normal, resulting from the break-in period. Inspect the filter at every oil change. The presence of large metal chips could indicate possible damage to the engine.

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

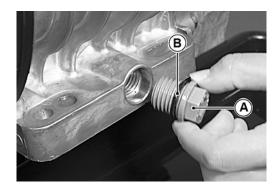


Fig. 21 Oil Drain Plug

Wipe the area around the drain plug mount with a lint free cloth and inspect the drain plug (A) for damage; replace if necessary. Replace the "O"-ring (B) with a new one and tighten to 61 in. lbs. (7.0 Nm) torque.

Apply engine oil to the oil filter seal and install oil filter onto the engine until the seal contacts mounting surface of the engine. Then turn the filter 2/3 to 3/4 rotations by HAND(S). Pour in the specified type and amount of oil See "Capacities and Replacement Parts" on page 23.

Oil capacity is 1 1/3 quarts (1.3 liters). Add slightly less than 1 1/3 quarts (1.3 liters) to allow for possible residual oil left in engine. The oil must be high quality oil that meets or exceeds API SF, SG, CC standards (Ref Fig. 22 on page 17). Check oil level on dipstick. Oil should be slightly below 'H' to allow for expansion. If necessary, continue to add oil slowly and allow time for oil to flow down into engine. Check oil level on dipstick. **Do not overfill.** 

### **A** CAUTION

Do not overfill engine. Too much oil may cause smoking or allow oil to enter the air filter enclosure.



Fig. 22 Add Engine Oil

### NOTE

Both the oil dipstick and fill cap must be in place before operating the engine. Failure to install the dipstick and fill cap will result in oil being discharged into the engine compartment.

As a final check, check the oil level again with the vehicle on level ground. Like all liquids, oil increases in volume when warm. The full 'H' mark on the dipstick is calibrated for an engine at operating temperature. When the engine is cold, the oil will be below the full mark. The engine can be operated safely as long as the oil is within the safe operating range as indicated on the dipstick. **Do not operate vehicle if oil level is below the safe area indicated on the dipstick.** 

### STARTER/GENERATOR BELT TENSION

Tool List	Qty. Required
Belt tension gauge	1
Wrench, 3/4"	1
Wrench, 9/16"	2
Ratchet, 3/8" drive	1
Socket, 3/4", 3/8" drive	1

The starter/generator belt tension should be checked after the first 15 - 20 hours and set to 75 - 80 lbs. (34 - 36 kg).

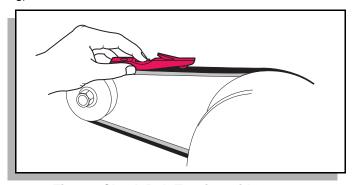


Fig. 23 Check Belt Tension with Gauge

### NOTE

A loose belt can cause audible vibration and squeal.

Tighten a **new** starter/generator belt to 90 - 110 lbs. (41-50 kg) tension when a gauge is applied half way between the two pulleys (Ref Fig. 23 on page 17).

A **new** belt may be checked manually. A maximum deflection of 3/8" (10 mm) is acceptable (Ref Fig. 24 on

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

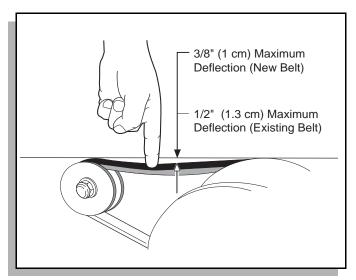


Fig. 24 Check Belt Tension Manually



Fig. 25 Adjust Belt Tension

page 18). Tighten an **existing** belt to 75 - 80 lbs. (34 - 36 kg) tension using the same technique and inspect for cracking or wear. A maximum deflection of 1/2" (13 mm) is acceptable

### **Adjusting The Belt**

Loosen the starter/generator pivot bolt.

While holding the lower adjusting nut with a wrench, loosen the upper jam nut with another wrench. Move the lower nut up or down the adjustment bolt until proper belt tension is achieved. Hold the lower nut in place and tighten the upper jam nut against it (Ref Fig. 25 on page 18).

Tighten the starter/generator pivot bolt.

#### **BATTERY CLEANING**



### CAUTION

To reduce the possibility of damage to vehicle or floor, neutralize acid before rinsing battery.

To reduce the possibility of damage to electrical components while cleaning, do not use a pressure washer.

Cleaning should take place per the Periodic Service Schedule (Ref. Periodic Service Schedule on page 13).

When cleaning the outside of the battery and terminals, first spray with a solution of sodium bicarbonate (baking soda) and water to neutralize any acid deposits before rinsing with clear water.

Use of a water hose without first neutralizing any acid, will move acid from the top of the battery to another area of the vehicle or storage facility where it will attack the metal structure or the concrete/asphalt floor. Additionally, a residue will be left on the battery which is conductive and will contribute to the discharge of the battery.

## **WARNING**

To reduce the possibility of battery explosion that could result in severe injury or death, do not use metallic spray wand to clean battery and keep all smoking materials, open flame or sparks away from the battery.

The correct cleaning technique is to spray the top and sides of the battery with a solution of sodium bicarbonate (baking soda) and water. This solution is best applied with a garden type sprayer equipped with a **non metallic spray wand or a plastic spray bottle**. The solution should consist of the amounts of sodium bicarbonate (baking soda) and clear water shown below (Ref Fig. 26 on page 19). In addition to the battery, special attention should be paid to metal components adjacent to the battery which should also be sprayed with the sodium bicarbonate (baking soda) solution.

Allow the solution to sit for at least three minutes; use a soft bristle brush or cloth to wipe the tops of the battery to

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

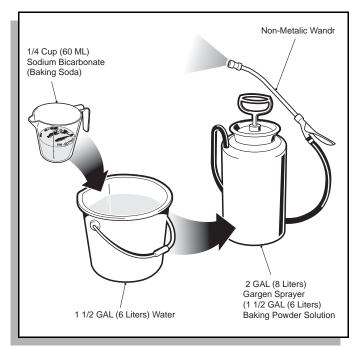


Fig. 26 Preparing Acid Neutralizing Solution

remove any residue that could contribute to the self discharge of the battery. Rinse the entire area with low pressure clear water. Do not use a pressure washer.

#### **BRAKES**

## **A WARNING**

To reduce the possibility of severe injury or death, always evaluate pedal travel before operating a vehicle to verify some braking function is present.

All driving brake tests must be done in a safe location with regard for the safety of all personnel.

#### NOTE

Over time, a subtle loss of performance may take place; therefore, it is important to establish the standard with a new vehicle.

The Periodic Brake Performance Test should be performed regularly as an evaluation of braking system performance. It is useful as a method of identifying subtle loss of performance over time.

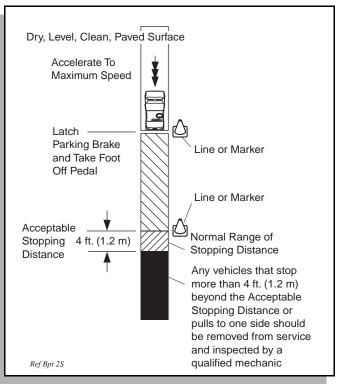


Fig. 27 Typical Brake Performance Test
Periodic Brake Test For Mechanical Brakes

The purpose of this test is to compare the braking performance of the vehicle to the braking performance of new or 'known to be good' vehicles or to an established acceptable stopping distance. Actual stopping distances will be influenced by weather conditions, terrain, road surface condition, actual vehicle weight (accessories installed) and vehicle speed. No specific braking distance can be reliably specified. The test is conducted by latching the park brake to eliminate different pedal pressures and to include the affects of linkage mis-adjustment.

Establish the acceptable stopping distance by testing a new or 'known to be good' vehicle and recording the stopping location or stopping distance. For fleets of vehicles, several vehicles should be tested when new and the range of stopping locations or distances recorded.

#### NOTE

Over time, a subtle loss of performance may take place; therefore, it is important to establish the standard with a new vehicle.

Drive the vehicle at maximum speed on a flat, dry, clean, paved surface (Ref Fig. 27 on page 19). Quickly depress

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

the brake pedal to latch the parking brake at the line or marker in the test area and remove foot from pedal. The vehicle should stop aggressively. The wheel brakes may or may not lock. Observe the vehicle stopping location or measure the vehicle stopping distance from the point at which the brakes were latched. The vehicle should stop within the 'normal' range of stopping distances. If the vehicle stops more than 4 ft. (1.2 m) beyond the acceptable stopping distance or pulls to one side, the vehicle has failed the test and should be tested again.

If the vehicle fails the second test, it should **immediately** be removed from service. The vehicle **must** be inspected by a qualified mechanic who should refer to the TROUBLESHOOTING section in the Technician's Repair and Service Manual.

### AIR INTAKE AND COOLING FINS

## **A** WARNING

To prevent possible burns, engine parts should be kept clean to reduce risk of overheating and ignition of accumulated debris. After every off road use, allow to cool and then check for a build up of dirt and debris in the air intake and cooling fins. Dirt and debris may clog the engine's air cooling system. Clean areas shown to prevent engine damage. Keep linkages, springs and controls clean. Keep area around muffler free of any combustible material.

At least once a year, or more often under adverse conditions) the cooling system should be cleaned. Cleaning will assure an adequate supply of air to the cooling fins. Compressed air may be used for routine cooling system maintenance.

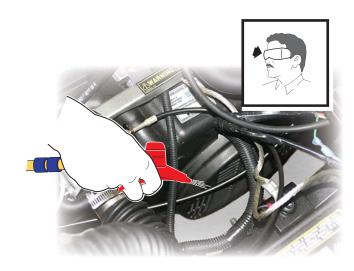


Fig. 28 Cleaning Cooling System with Air

#### **REAR AXLE**

The rear axle is provided with a lubricant level check plug located on the driver side at the rear of the housing (Ref Fig. 29 on page 21). Unless leakage of rear axle lubricant is evident, an annual lubricant check is sufficient.

### **Checking The Lubricant Level**

Tool List	Qty. Required
Socket, 13 mm, 3/8" drive	1
Ratchet, 3/8" drive	1
Funnel	1

Clean the area around the check and fill plugs. Remove the check plug. The correct lubricant level is **just** below the bottom of the threaded hole (Ref Fig. 29 on page 21). If lubricant is to be added, remove the fill plug and add lubricant using a funnel. Add lubricant slowly until lubricant starts to seep from the check plug hole. Install the check plug and the fill plug. In the event that the lubricant is to be replaced, a drain plug is provided at the bottom of the differential housing.

## AIR CLEANER INSPECTION AND REPLACEMENT

The air cleaner unit on the vehicle is a dry unit. **Do not** use oil on the filter element or any part of the unit. To aide installation and sealing, petroleum jelly may be applied to back side of cover tabs and each side of filter seal.

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

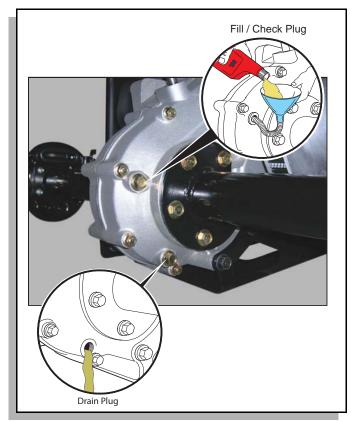


Fig. 29 Add, Check and Drain Rear Axle Lubricant

#### **Cleaning the Air Filter Element**



Do not use compressed air to clean the air filter; doing so will damage the filter which may result in damage to the engine.

The air cleaner element is accessible by unsnapping the clips on the air canister and removing the cover and air filter element (Ref Fig. 30 on page 21). Clean inside of cover, canister and dust collector. Install the element and cover the same way they were removed. Be sure the positioning arrow on cover is pointing upward and all clips are fastened securely.

If the element is in acceptable condition, loose dirt may be removed by tapping the filter lightly. Do not use oil on the filter element or any part of the unit.

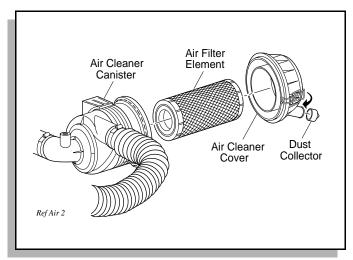


Fig. 30 Air Cleaner

#### LUBRICATION

## **A** CAUTION

Do not use more than three (3) pumps of grease in any grease fitting at any one time. Excess grease may cause grease seals to fail or grease migration into areas that could damage components.

Putting more than three pumps of grease in a grease fitting could damage grease seals and cause premature bearing failure (Ref Fig. 31 on page 21).

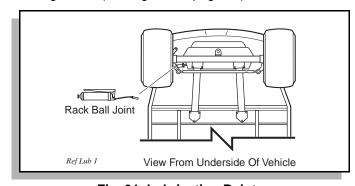


Fig. 31 Lubrication Points

#### SPARK PLUG

Tool List	Qty. Required
Spark plug socket, 13/16", 1/2" drive	1
Ratchet, 1/2" drive	1
Plug gauge, wire type	1
Anti-seize compound	AR
Torque wrench, 1/2" drive, ft. lbs	1

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

## **A** CAUTION

Use care not to over-tighten the plug. Over-tightening can cause damage to the aluminum cylinder head threads.

Remove and inspect the spark plug at intervals indicated in the Periodic Service Schedule (Ref Fig. 14 on page 13). The spark plug should be properly gapped (Ref Fig. 32 on page 22). Tighten to 16 ft. lbs. (22 Nm) torque.

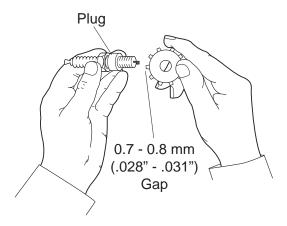


Fig. 32 Gapping the Spark Plug

Fouled spark plug is indicated by a wet, black appearance. This could be caused by a dirty air filter element or other restrictions in the air intake system. Incorrectly adjusted valves, spark plug wire which are in poor condition or poor quality fuel could also contribute to the problem.

#### PROLONGED STORAGE

# **A** WARNING

To reduce the possibility of severe injury or death resulting from a possible explosion:

Do not handle fuel in an area that is not adequately ventilated. Do not smoke near the fuel tank or refuel near open flame or electrical items which could produce a spark.

Store vehicle in a clean, dry area. Do not store in same area as a stove, furnace, water heater, or other appliance that

uses a pilot light or has a device that can create a spark.

When refueling, inspect the fuel cap for leaks or breaks that could result in fuel spillage.

Always wear safety glasses while refueling to prevent possible eye injury from gasoline or gasoline vapor.

Keep hands, clothing and jewelry away from moving parts. Use care not to contact hot objects. Raise the rear of the vehicle and support on jack stands before attempting to run the engine.

Preparing the engine for a prolonged storage period (30 days or more) calls for a few simple steps to prevent a build up of varnish and gum in the carburetor and corrosion in the engine.

- Raise the rear of the vehicle and support on jack stands. Refer to 'Lifting the Vehicle' for proper lifting procedure and safety information.
- Disconnect the fuel hose at the fuel tank and plug hose.
- With proper ventilation, depress the accelerator pedal and allow engine to run until it stops due to lack of fuel.
- Remove spark plug and pour about 1 oz. (30 ml) of engine oil into the cylinder. Replace spark plug, ground spark plug wire and use starter to turn engine over a few seconds to distribute oil.
- Add a gasoline additive to the tank in accordance with the manufacturer's recommendations.
- Reattach fuel line to tank and drive the vehicle for several minutes to circulate the additive through the carburetor.
- While engine is still warm, change oil.
- Clean body, chassis and engine of debris, mud, chaff or grass.

# CAPACITIES AND REPLACEMENT PARTS

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

Fuel Tank / Fuel	6.0 gal (22.5 liters) / 87 Octane Min.
Engine Oil	1.4 USqt (1.3 liters)
Oil Filter	P/N 26591-G01
Air Filter	P/N 28463-G01
Spark Plug	NGK BPR2ES (P/N 25523-G3)
	.020 - 030" (.7175 mm) Gap
Starter/Generator Belt	P/N 606138
Clutch Belt	P/N 606136
Rear Axle Oil	51 oz (1.5 liters) / SAE30
Fuse	15 amp (P/N 18392-G1)
Headlight Sealed Beam	(P/N 20209-G3)
Turn Signal Bu b	(P/N 20574-G3)
Tail Light Bulb	#1157 (P/N 21759-G1)

#### **HARDWARE**

Periodically, the vehicle should be inspected for loose fasteners. Fasteners should be tightened in accordance with the Torque Specifications table (Ref Fig. 34 on page 23).

Use care when tightening fasteners and refer to the Technician's Repair and Service Manual for specific torque values.

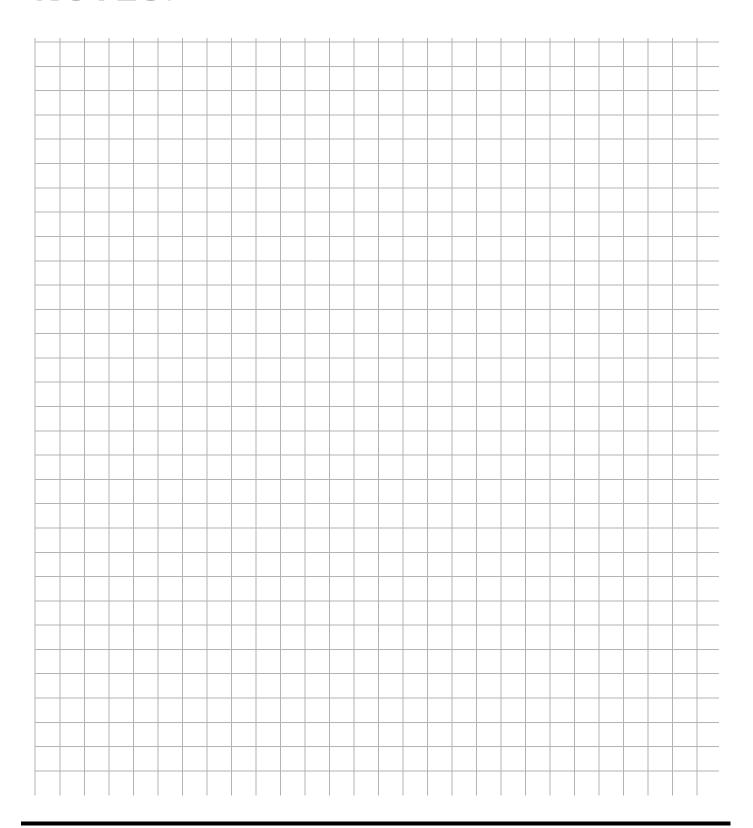
Generally, three grades of hardware are used in the vehicle. Grade 5 hardware can be identified by the three marks on the hexagonal head and grade 8 hardware is identified by 6 marks on the head. Unmarked hardware is Grade 2 (Ref Fig. 34 on page 23).

Fig. 33 Capacities and Replacement Parts

		his chart sp	otherwise no ecifies 'lubri	oted in text, cated' torqu	ue figures. Fa	ardware in a asteners tha	S. (Nm) accordance at are plated he torque re	or lubricate	d when	S.
BOLT SIZE	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Grade 2	4 (5)	8 (11)	15 (20)	24 (33)	35 (47)	55 (75)	75 (102)	130 (176)	125 (169)	190 (258)
Grade 5	6 (8)	13 (18)	23 (31)	35 (47)	55 (75)	80 (108)	110 (149)	200 (271)	320 (434)	480 (651)
Grade 8	6 (8)	18 (24)	35 (47)	55 (75)	80 (108)	110 (149)	170 (230)	280 (380)	460 (624)	680 (922)
BOLT SIZE	M4	M5	М6	M8	M10	M12	M14			
Class 5.8 (Grade 2) 5.8	1 (2)	2 (3)	4 (6)	10 (14)	20 (27)	35 (47)	55 (76.4)			
Class 8.8 (Grade 5) 8.8	2 (3)	4 (6)	7 (10)	18 (24)	35 (47)	61 (83)	97 (131)			
Class 10.9 (Grade 8)	3 (4)	6 (8)	10 (14)	25 (34)	49 (66)	86 (117)	136 (184)			

Fig. 34 Torque Specifications and Bolt Grades

Read all of Manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings



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GEN	ERAL	SPEC	JIFICA	

## ST SPORT II<sup>™</sup> CARB

STANDARD EQUIPMENT:

WEIGHT (dry fuel tank) NA\*\*

TIRES (4 ply rated) 20 x 11 x 10 (4 ply rated) TIRE PRESSURE 18 - 22 psi (124 - 152 kPa)\*

LOAD CAPACITY 800 lbs (408 kg) (including operator, passenger, cargo and accessories)

GROUND CLEARANCE NA\*\*

CHASSIS Welded high yield strength tubular steel with powder coat paint BODY & FINISH Front: Flexible, impact resistant panels. Color coat/clear coat finish

Rear: Lightweight, replaceable steel panels

SAFETY Dash mounted key switch, 'deadman' accelerator control, integral handgrip on hip restraints, manual

forward/reverse selector

LIGHTING PACKAGE Dual halogen headlights

STEERING WHEEL Dual handgrips

BRAKES Dual rear wheel mechanical, self-adjusting drum brakes. Combination service / park brake with

automatic parking brake release (accelerator kick-off).

FRONT SUSPENSION

REAR SUSPENSION

Heavy duty leaf springs with hydraulic shock absorbers

Heavy duty leaf springs with hydraulic shock absorbers

STEERING

Self-compensating single reduction rack and pinion

DASH PANEL Scuff resistant with four drink holders

SEATING Formed fabric backed vinyl covers over cushion foam. Seating for operator and one passenger ENGINE 13 HP (rated) 401 cc single cylinder, air cooled, Overhead Valve Pressurized Lubrication with

replaceable Oil Filter Internal Balance Shaft Solid State Ignition Replaceable Dry Cartridge Air Filter

& Remote Intake Fixed Jet Bowl Carburetor, Pulse Fuel Pump

VALVE TRAIN Overhead valve

LUBRICATION Pressurized oil system, replaceable filter
BALANCER Internal counter-rotating balance shaft
IGNITION Transistor Type Flywheel Magneto
CARBURETOR Fixed jet, remote pulse fuel pump
AIR CLEANER Replaceable dry cartridge element

DRIVE TRAIN Automatic, continuously variable transmission (CVT)

ELECTRICAL SYSTEM External starter/generator, Solid State regulator, 12 volt maintenance free battery

TRANSAXLE High efficiency differential with helical gears, 11.42:1 ratio, ground speed governor, forward and

reverse with neutral detent

FUEL TANK 6 gal (23 L)

FUEL Fresh regular grade unleaded. Ethanol blends upto 10% permissible.

SPEED 16 mph  $\pm$  .5 mph (26 kph  $\pm$  .8 kph)

NOISE Sound pressure; continuous A- weighted equal to or less than 76 dB(A)

VIBRATION, WBV The highest RMS value of weighted acceleration is 0.98 m/s<sup>2</sup>

VIBRATION, HAV The highest RMS value of weighted acceleration is less than 2.5 m/s<sup>2</sup>

The uncertaintyl of measurement is .39 m/s<sup>2</sup>

Specifications subject to change without notice

<sup>\*</sup>Do not use low inflation pressure tires on any E-Z-GO Vehicle. Do not use any tire which has a recommended inflation pressure less than the inflation pressure recommended in Owner's Manual.

<sup>\*\*</sup> Not available at the time of publication.

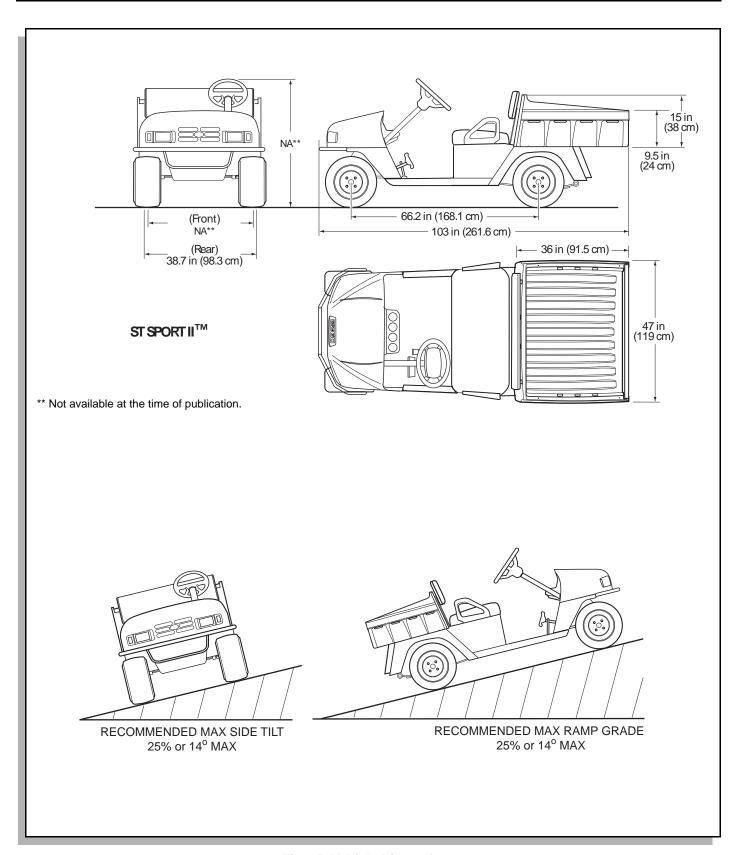


Fig. 35 Vehicle Dimensions

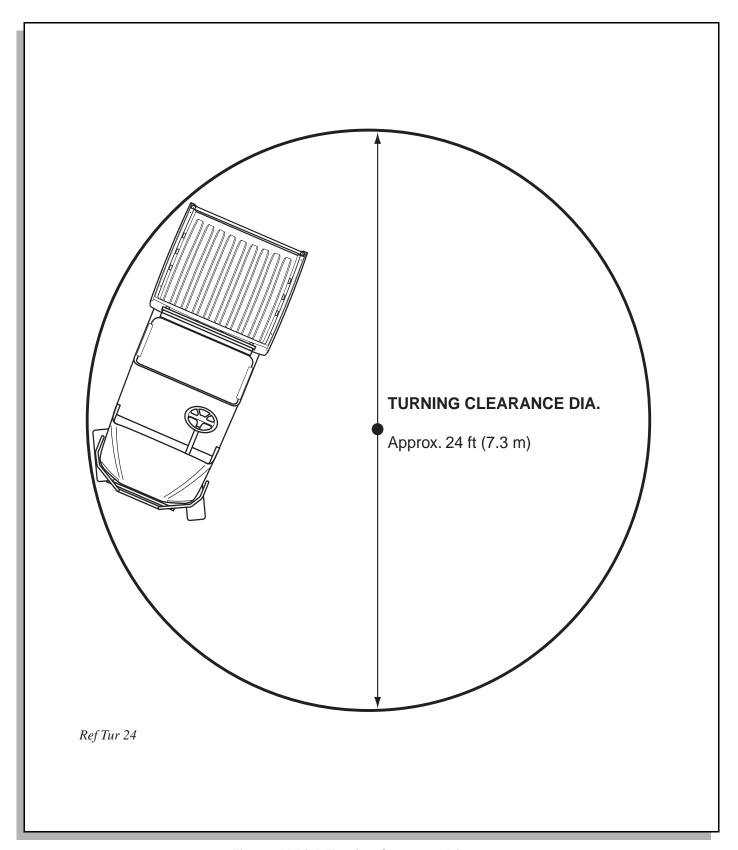
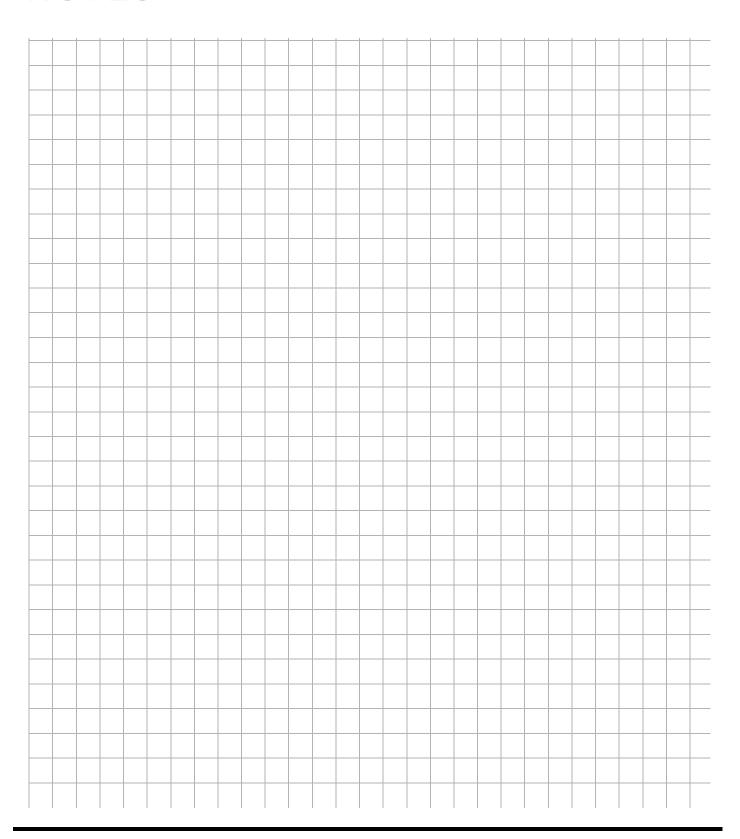
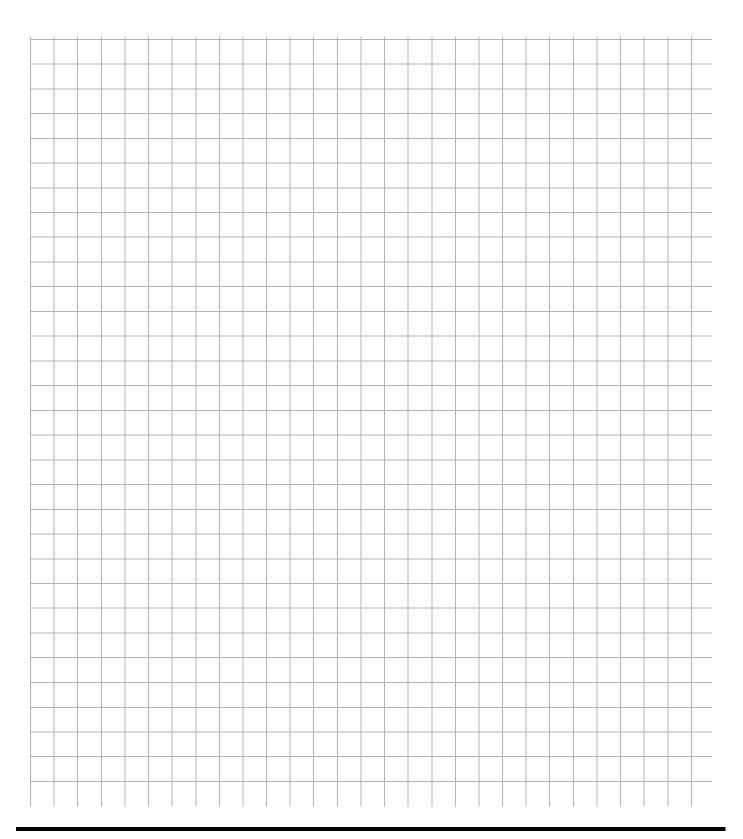
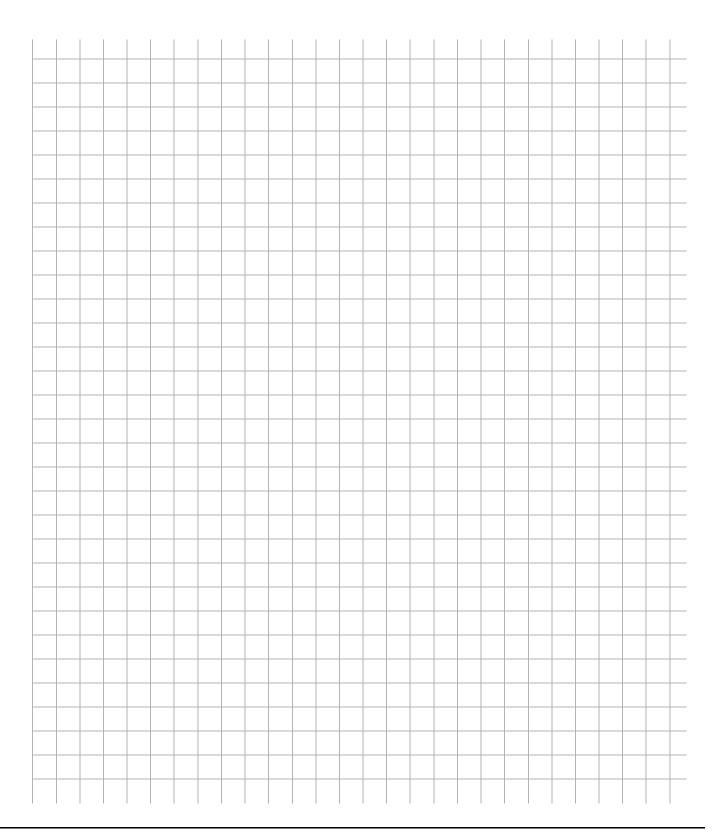


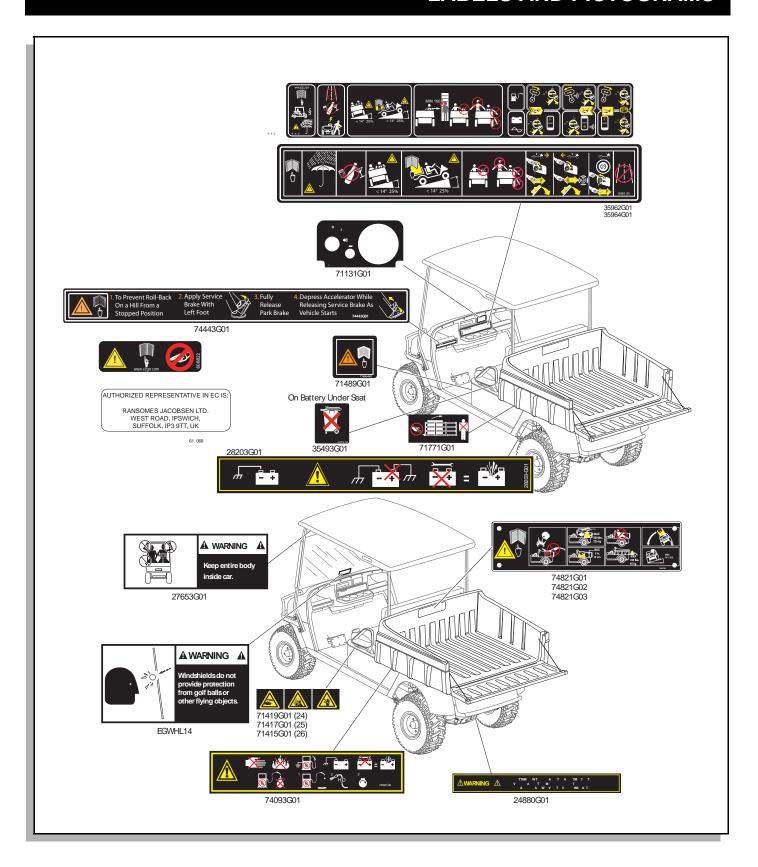
Fig. 36 VehicleTurning Clearance Diameter

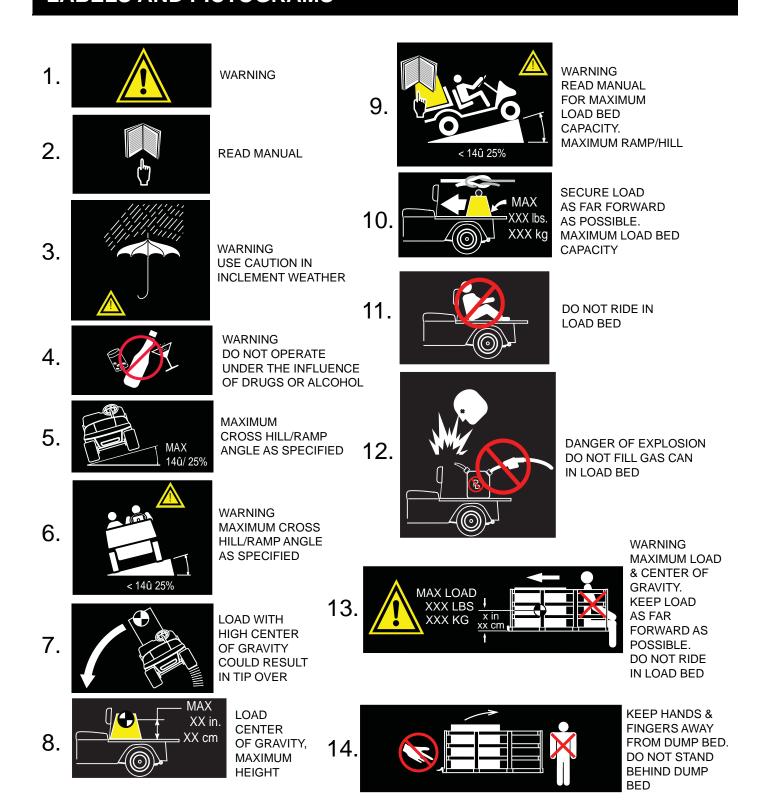




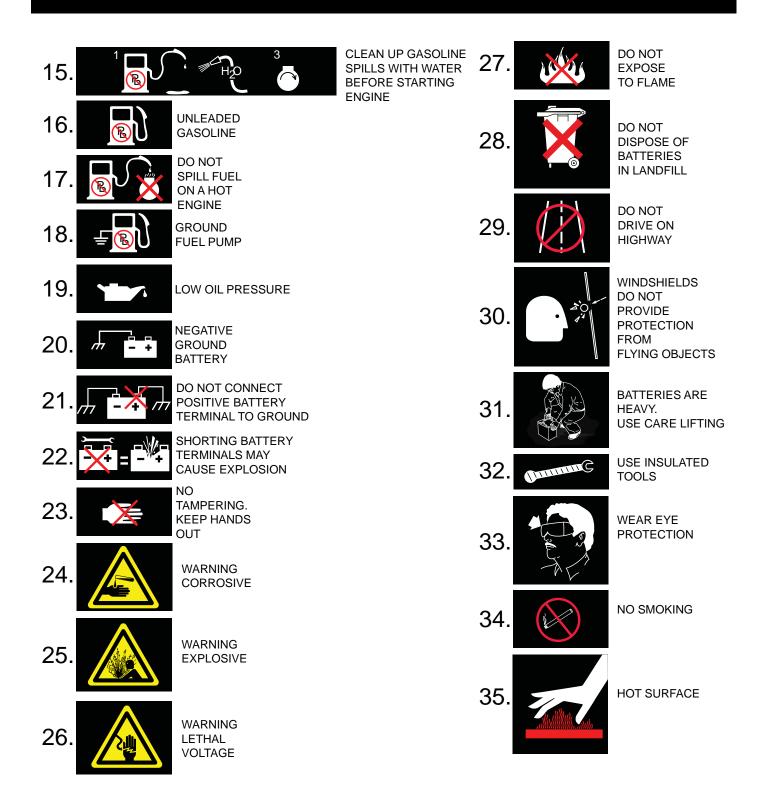
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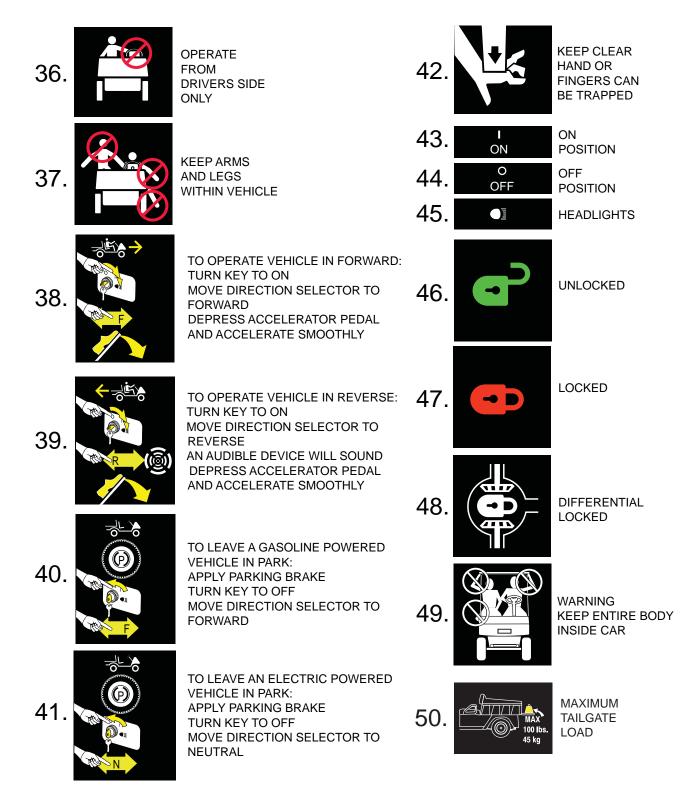




NOTE: All Pictograms may not apply to your product



NOTE: All Pictograms may not apply to your product



NOTE: All Pictograms may not apply to your product

51. START 4

52. 9

53. 122

54. 452

ENGINE CRANKING POSITION

PULL HANDLE UP TO ENGAGE PARK BRAKE

PULL HANDLE UP, PUSH BUTTON IN, PUSH HANDLE DOWN TO RELEASE PARK BRAKE

> WARNING READ OWNER'S MANUAL BEFORE OPERATING VEHICLE IN FORWARD OR REVERSE

55. A ...

WARNING READ OWNER'S MANUAL BEFORE PARKING VEHICLE AND LEAVING IT UNATTENDED

56. s==

**FORWARD** 

**NEUTRAL** 

**REVERSE** 

57.

WARNING READ OWNER'S MANUAL BEFORE ENGAGING TWO OR FOUR WHEEL DRIVE

58.

PUSH TOP OF SWITCH TO LOCK DIFFERENTIAL

PUSH BOTTOM OF SWITCH TO UNLOCK DIFFERENTIAL 59.

REAR DIFFERENTIAL LOCK SWITCH

60.

FRONT DIFFERENTIAL LOCK SWITCH. WARNING
READ OWNER'S MANUAL BEFORE
ENGAGING FRONT DIFFERENTIAL
LOCK.
DO NOT ENGAGE LOCK WHILE
FRONT WHEELS ARE TURNED AND
VEHICLE IS AT SPEED.

61.

PUSH TOP PART OF SWITCH TO RAISE LOAD BED

PUSH BOTTOM PART OF SWITCH TO LOWER LOAD BED

62.

**AUXILIARY LIGHTS** 

63. <del>|</del>

HORN BUTTON

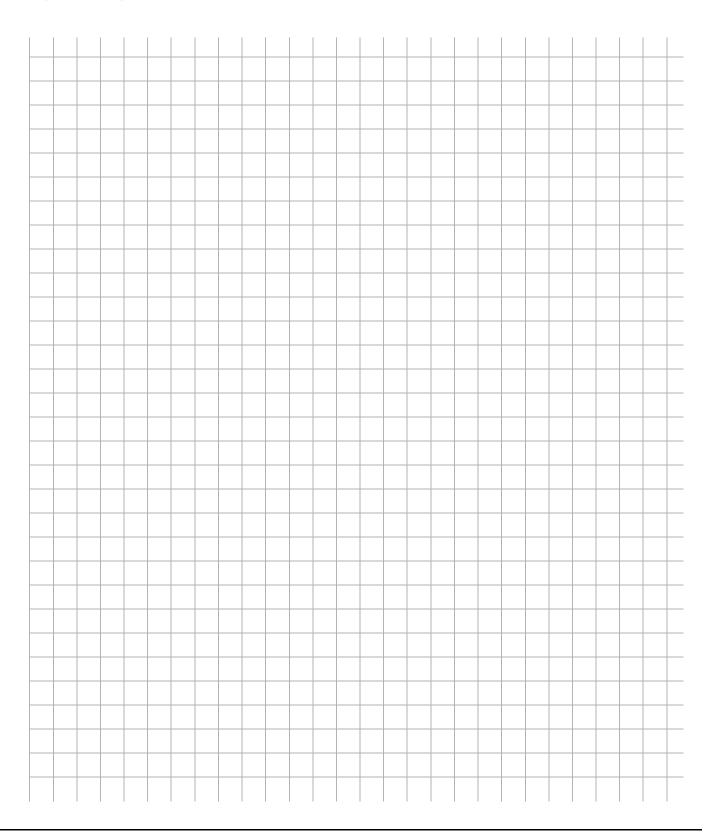


MINIMUM HEIGHT TO OPERATE VEHICLE IS 59 INCHES (150 CM)



DO NOT OPERATE VEHICLE WHEN LIGHTNING IS IN THE AREA

NOTE: All Pictograms may not apply to your product



# **VEHICLE WARRANTIES**

# **VEHICLE WARRANTIES**

# **VEHICLE WARRANTIES**

## **DOMESTIC WARRANTY**

(U.S. AND CANADA)

To obtain a copy of the limited warranty applicable to the vehicle, call or write a local Distributor, authorized Branch or the Warranty Department with vehicle serial number and manufacturer date code.

## **VEHICLE WARRANTIES - CALIFORNIA**

## CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and E-Z-GO are pleased to explain the evaporative emission control system warranty on your 2010 vehicle. In California, new vehicles must be designed, built and equipped to meet the State's stringent anti-smog standards. E-Z-GO must warrant the EECS on your vehicle for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your vehicle.

Your EECS may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated emission-related components.

Where a warrantable condition exists, E-Z-GO will repair your vehicle at no cost to you including diagnosis, parts and labor.

#### **MANUFACTURER'S WARRANTY COVERAGE:**

This evaporative emission control system is warranted for two years. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by E-Z-GO.

#### **OWNER'S WARRANTY RESPONSIBILITIES:**

As the vehicle owner, you are responsible for performance of the required maintenance listed in your owner's manual. E-Z-GO recommends that you retain all receipts covering maintenance on your vehicle, but E-Z-GO cannot deny warranty solely for the lack of receipts.

As the vehicle owner, you should however be aware that E-Z-GO may deny you warranty coverage if your vehicle or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

You are responsible for presenting your vehicle to E-Z-GO Division of Textron Inc. distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact your nearest authorized E-Z-GO service center or call the E-Z-GO Warranty Department at 1-800-448-7476

#### **GENERAL EMISSIONS WARRANTY COVERAGE:**

E-Z-GO warrants to the ultimate purchaser and each subsequent purchaser that the vehicle is:

Designed, built and equipped so as to conform with all applicable regulations; and

Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in E-Z-GO's application for certification.

The warranty period begins on the date the vehicle is delivered to an ultimate purchaser or first placed into service. The warranty period is two years.

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

- (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by E-Z-GO according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
- (2) Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.

## **VEHICLE WARRANTIES - CALIFORNIA**

- (3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by ABC, Inc. according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
- (4) Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.
- (5) Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.
- (6) The vehicle owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station.
- (7) E-Z-GO is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.
- (8) Throughout the vehicle warranty period stated above, E-Z-GO will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
- (9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of E-Z-GO.
- (10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claims. E-Z-GO will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

#### **WARRANTED PARTS:**

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if E-Z-GO demonstrates that the vehicle has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts list are covered:

- (1) Fuel Tank
- (2) Fuel Cap
- (3) Fuel Line
- (4) Fuel Line Fittings
- (5) Clamps
- (6) Pressure Relief Valves
- (7) Control Valves
- (8) Control Solenoids
- (9) Electronic Controls
- (10) Vacuum Control Diaphragms
- (11) Control Cables
- (12) Control Linkages
- (13) Purge Valves
- (14) Vapor Hoses
- (15) Liquid/Vapor Separator
- (16) Carbon Canister
- (17) Canister Mounting Brackets
- (18) Carburetor Purge Port Connector

## **VEHICLE WARRANTIES - FEDERAL**

#### FEDERAL EMISSIONS COMPONENT DEFECT WARRANTY

EMISSIONS COMPONENT DEFECT WARRANTY COVERAGE - This emission warranty is applicable in all States, except the State of California

Kawasaki Heavy Industries Ltd. and E-Z-GO Division of Textron Augusta, Georgia, (herein "E-Z-GO") warrant(s) to the initial retail purchaser and each subsequent owner, that this Non-road engine (herein "engine") has been designed, built, and equipped to conform at the time of initial sale to all applicable regulations of the U.S. Environmental Protection Agency (EPA), and that the engine is free of defects in materials and workmanship which would cause this engine to fail to conform with EPA regulations during its warranty period.

For the components listed under PARTS COVERED, the distributor, dealer, or service provider authorized by E-Z-GO will, at no cost to you, make the necessary diagnosis, repair, or replacement necessary to ensure that the engine complies with applicable U.S. EPA regulations.

#### EMISSISON COMPONENT DEFECT WARRANTY PERIOD

The warranty period for this engine begins on the date of sale to the initial purchaser and continues for a period of 2 years.

#### PARTS COVERED

Listed below are the parts covered by the Emission Components Defect Warranty. Some of the parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement point for that part.

#### Fuel Metering System

Carburetor and internal parts (and/or pressure regulator or fuel injection system)

Air/fuel ratio feedback and control system, if applicable.

Cold start enrichment system, if applicable.

Air Induction System

Intake manifold, if applicable

Air filter.

Ignition System

Spark plugs.

Magneto or electronic ignition system.

Spark advance/retard system, if applicable.

Exhaust manifold, if applicable

Miscellaneous Items Used in Above Systems

Electronic controls, if applicable

Hoses, belts, connectors, and assemblies.

#### **OBTAINING WARRANTY SERVICE**

To obtain warranty service, take your engine to the nearest authorized E-Z-GO distributor, dealer, or service provider. Bring your sales receipts indicating date of purchase for this engine. The distributor, dealer, or service provider authorized by E-Z-GO will perform the necessary repairs or adjustments within a reasonable amount of time and furnish you with a copy of the repair order. All parts and accessories replaced under this warranty become the property of E-Z-GO.

#### WHAT IS NOT COVERED

Conditions resulting from tampering, misuse, improper adjustment (unless they were made by the distributor, dealer, or service provider authorized by E-Z-GO during a warranty repair), alteration, accident, failure to use the recommended fuel and oil, or not performing required maintenance services.

The replacement parts used for required maintenance services.

Consequential damages such as loss of time, inconvenience, loss of use of the engine or equipment, etc.

Diagnosis and inspection charges that do not result in warranty-eligible service being performed.

Any non-authorized replacement part, or malfunction of authorized parts due to use of non-authorized parts.

OWNER'S WARRANTY RESPONSIBILITIES

## **VEHICLE WARRANTIES - FEDERAL**

As the engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. E-Z-GO recommends that you retain all receipts covering maintenance on your engine, but E-Z-GO cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the engine owner, you should however be aware that E-Z-GO may deny warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your engine to the nearest distributor, dealer, or service provider authorized by E-Z-GO when a problem exists.

If you have any questions regarding your warranty rights and responsibilities, you should contact the E-Z-GO Warranty Department at 1-800-241-5855 for the information.

THINGS YOU SHOULD KNOW ABOUT THE EMISSION CONTROL SYSTEM WARRANTY

#### MAINTENANCE AND REPAIRS

You are responsible for the proper maintenance of the engine. You should keep all receipts and maintenance records covering the performance of regular maintenance in the event questions arise. These receipts and maintenance records should be transferred to each subsequent owner of the engine. E-Z-GO reserves the right to deny warranty coverage if the engine has not been properly maintained. Warranty claims will not be denied, however, solely because of the lack of required maintenance or failure to keep maintenance records.

MAINTENANCE, REPLACEMENT OR REPAIR OF EMISSION CONTROL DEVICES AND SYSTEMS MAY BE PERFORMED BY ANY REPAIR ESTABLISHMENT OR INDIVIDUAL; HOWEVER, WARRANTY REPAIRS MUST BE PERFORMED BY A DISTRIBUTOR, DEALER OR, SERVICE PROVIDER AUTHORIZED BY E-Z-GO. THE USE OF PARTS THAT ARE NOT EQUIVALENT IN PERFORMANCE AND DURABILITY TO AUTHORIZED PARTS MAY IMPAIR THE EFFECTIVENESS OF THE EMISSION CONTROL SYSTEM AND MAY HAVE A BEARING ON THE OUTCOME OF A WARRANTY CLAIM.

If other than the parts authorized by E-Z-GO are used for maintenance replacements or for the repair of components affecting emission control, you should assure yourself that such parts are warranted by their manufacturer to be equivalent to the parts authorized by E-Z-GO in their performance and durability.

#### HOW TO MAKE A CLAIM

All repair qualifying under this limited warranty must be performed by a distributor, dealer, or service provider authorized by E-Z-GO. In the event that any emission-related part is found to be defective during the warranty period, you shall notify E-Z-GO Warranty Department at 1-800-241-5855 and you will be advised of the appropriate warranty service providers where the warranty repair can be performed.

# DECLARATION OF CONFORMITY (EUROPE ONLY)

DECLARATION OF CONFORMITY • ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ • PROHLÁŠENÍ O SHODĚ •
OVERENSSTEMMELSESERKLÆRING • CONFORMITEITSVERKLARING • VASTAVUSDEKLARATSIOON •
VAATIMUSTENMUKAISUUSVAKUUTUS • DECLARATION DE CONFORMITE • KONFORMITÄTSERKLÄRUNG • ΔΗΛΩΣΗ
ΣΥΜΜΟΡΦΩΣΗΣ • MEGFELELŐSÉGI NYILATKOZAT • DICHIARAZIONE DI CONFORMITÀ • ATBILSTĪBAS DEKLARĀCIJA •
ATITIKTIES DEKLARACIJA • DIKJARAZZJONI TAL-KONFORMITÀ • DEKLARACJA ZGODNOŚCI • DECLARAÇÃO DE
CONFORMIDADE • DECLARAŢIE DE CONFORMITATE • VYHLÁSENIE O ZHODE • IZJAVA O SKLADNOSTI • DECLARACIÓN
DE CONFORMIDAD • DEKLARATION OM ÖVERENSSTÄMMELSE • SAMRÆMISYFIRLÝSING • KONFORMITETSERKLÆRING

Business name and full address of the manufacturer • Τърговско име и пълен адрес на производителя • Obchodní jméno a piná adresa výrobce • Producentens firmanavn og fulde adresse • Bedriftsnam en volledíg adres van de fabrikant • Toolţa äriniml ja läielik aadress • Valmistajan toirminimi ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmenname und voltständige Adresse des Herstellers • Eπωνυμία και ταχυδρομική διεύθυνση κατασκευαστή • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uz ŋēmuma nosaukums un pilna ražotāja adress • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerčjai u indirizzo completo del fabbricante • Uz ŋēmuma nosaukums un pilna ražotāja adresse • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerčjai u indirizzo completo de fabricante • Denumirue comerciali şã adresse completă a produčitul • Obchodný názov a úplna adressa výrobeu • Naziv podiţta in polni naslov proizvajaica • Nombre de la empresa y dirección completa del fabricante • Tillverkarens företagsnamn och kompletta adress • Fyrirt ækisheiti og fullt heimilisfang framleiðanda • Firmanavn og full adresse for produsenten	E-Z-GO Division of Textron Inc, 1451 Marvin Griffin Road Augusta, GA 30906 USA
Product Code • Κοд на продукта • Κόd νýrobku • Produktkode • Productcode • Toote kood • Tuotekoodi • Code produit • Produktcode • Κωδικός προϊόντος • Terměktód • Codice produtt • Produkta kods • Produkto kodas • Kodiči tal-Prodott • Kod produktu • Código de Produtt • Cod produs • Kód výrobku • Oznaka proizvoda • Código de producto • Produktkod • Vôrunúmer • Produktkode	605785, 76211, 606697, 605815, 605811, 606688, 605782 When Fitted With CE Kit 614168
Machine Name · Намменование на машината · Název stroje · Maskinnavn · Machinenaam · Masina nimi · Laitleen nimi · Nom de la machine · Maschinenbezeichnung · Ovομασία μηχανήματος · Gépnév · Denominazione della macchina · lek ârtas nosaukums · Mašinos pavadinimas · Isem tal-Magna · Nazwa urządzenia · Nome da Máquina · Numele echipamentului · Názov stroja · Naziv stroja · Nombre de la máquina · Maskinens namn · Heiü l ækis · Maskinnavn	ST utility vehicle (gasoline models)
Designation - Предназначение · Označení · Betegnelse · Benaming · Nimetus · Tyyppimerkinlä · Pażymėjimas · Bezeichnung · Χαρακτηρισμός · Megnevezés · Funzione · Apzimějums · Lithuanian · Denominazzjoni · Oznaczenie · Designação · Specificaţie · Označenie · Namen stroja · Descripción · Beteckning · Merking · Konstruksjon	Utility Vehicle
Serial Number • Cepweн номер • Sériové číslo • Serienummer • Serienummer • Serienummer • Valmistusnumero • Numéro de série • Seriennummer • Σειραχός αριθμός • Sorozatszám • Numero di serie • Sérijas numurs • Serijos numeris • Numru Serjali • Numer seryjny • Número de Série • Numār de serie • Sériové číslo • Serijska številka • Número de serie • Serienummer • Račnúmer • Serienummer	2696143 to 2800000
Conforms to Directives - В съответствие с директивите - Spiňuje podmínky směrnic - Er i overensstemmelse med direktiver - Voldoet aan de richtijnen - Vastab direktiividele - Direktiivien mukainen - Conforme aux directives - Entspricht Richtlinien - Акоλоυθήστε πιστά τις Οδηγίες - Megfelel az irányelveknek - Conforme alle Direttive - Atbilst direktivam - Atbilnka direktyvų reikalavimus - Valutazzjoni tal-Konformità - Dyrektywy związane - Cumpre as Directivas - Respectà Directivele - Je v súlade so smernicami - Składnost z direktivami - Cumple con las Directivas - Uppfyller direktiv - Samr æmist tilskipunum - I samsvar med direktiv	2006/42/EC
Conformity Assessment • Oueнка за σъответствие • Hodnoceni plnění podmínek • Overensstemmelsesvurdering • Conformiteitsbecordeling • Vastavushindamine • Vaatimustenmukaisuuden arviointi • Evaluation de conformité • Konformitätsbeurteilung • Διαπίστωση Συμμόρφωσης • Megfelelőség-értékelés • Valutazione delta conformit à • Athistitões novêrtějums • Athititities   verhinimas • Livelt tal-Cawawa lat-Hoss Imkeijel • Ocena zgodności • Avaliação de Conformidade • Evaluarea conformităţii • Vyhodnotenie zhodnosti • Ocena skladnosti • Evaluación de conformidad • Bedőmning av överensstämmelse • Samr æmismat • Konformitetsvurdering	2006/42/EC Annex II
Harmonised slandards used • Използвани хармонизирани стандарти • Použité harmonizované normy • Brugte harmoniserede standarder • Gebruikte geharmoniseerde standards • Kasutatud ühtlustatud standardid • Käytetyt yhdenmukaistetut standardit • Normes harmonisées utilisées • Angewandte harmonisierte Normen • Evopµovorµtvo πρότυπα που χρησιµοτιοτήθηκαν • Harmonizált szabványok • Standard armonizzati applicati • Izmantotie saska notie standardi • Panaudoti suderinti standardi • Standards armonizzati utati • Normy spójne powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uporabljeni usklajeni standardi • Estándares armonizados utilizados • Harmoniserade standarder som används	EN 61000-6-2:2005 EN 61000-6-4:2007 EN ISO 5349:1986 EN ISO 11202
Technical standards and specifications used · Използвани технически стандарти и спецификации · Použité technické normy a specifikace · Brugle lekniske standarder og specifikationer · Gebruikte technische standaards en specificaties · Kasutatut tehnilised standardid ja spetsifikatsioonid · Käytetyt teknisel standardit ja eritelmät · Specificationes et normes techniques utilisées · Angewandte technische Normen und Spezifikationen · Τεχνικά πρότυτα και προδιαγραφές του χρησιμοποιήθηκαν · Mūszaki szabványok és specifikációk · Standard technic es specifiche applicatii · Izmantotie tehniskie standardt un specifikácijas · Panaudoti techniniai standartai ir technin é informacija · Standards u specifikazzjonijiet teknici užali · Normy i specyfikacje techniczne powiagzane · Normas técnicas e especificações usadas · Standardete tehnice şi specificaţiie utilizate · Použité technické normy a špecifikácide · Uporabljeni tehnichi standardi in specifikacije · Estándares y especificações usadas · Tekniska standarder och specifikationer som används · Samr æmdir staôtar sem notaôir eru · Benyttede harmoniserte standarder	ISO 2631-1:1985
The place and date of the declaration • Mясто и дата на декларацията • Misto a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklæring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklar ācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul şi data declarajei • Miesto a dátum vyhlásenia • Kraj in datum tzjave • Lugar y fecha de la declaración • Plata sch datum för deklaratione • Tæknistaðlar og tæknilýsingar sem notaðar enu • Benyttede tekniske standarder og spesifikasjoner • Sta ður og dagsetning yfirfysingar • Sted og dato for erklæringen	E-Z-GO Division of Textron inc, 1451 Marvin Griffin Road Augusta, GA 30906 USA

ered to draw up the declaration on behalf of the manufacturer, holds the technical documentation and is authorised to comoile the technical file, and who is

Signature of the person empowered to draw up the declaration on behalf of the manufacturer, holds the technical established in the Community.

Ingune на човека, упълномощен да състави двизрасцията от името на производитвля, който поддържащ технонеската двосументация и е отремзерия дви изготем технеческия фаля по в реинстрием в общносттв. Роффіз osoby oprávněné sastaví trorhlášení jménem výrobos, držet technickou dokumentaci a osoby oprávněné sastaví techniche ne oprávněné producené produ

Obenduser registrisse kantud islivu allkiri, kes on volltatud toolga nimel deklaratsiooni koostama, kes omab tehmist dokumentatsiooni ja kelbel on õigus koostada tahrinine toimik. Sen henkilön allekirjoitus, jolla on valmistajan valtuulus vakuuluksen laadintaan, jolla on hallussaan tekniset aisaikirjai, joka non sijoitustumut yhteisöön.

Signature de la personne habilitele är dekiger la declaration au nom du fabricant, à déterir la documentation technique, à compiler les fichiers techniques et jour last timpsinde dans la Communauté.

Uniterschrift der Person, die berechtigt ist, die Erktärung im Namen des Herstellers abzugeben, die die technischen Unitersgen autbewahnt und berechtigt ist, die technischen Unitersgen zusammenzustellen, und die in der Gemeinschaft fledergelassen ist.

Yrroppogri qu'opu ot Zounoboringt voor ver und verson de verson verso

2006/42/EC Annex II 1A: 2 Tim Lansdell Technical Director 20th January 2010 Ransomes Jacobsen Ltd, West Road, Ransomes Europark, Ipswich, England, IP3 9TT

2006/42/EC Annex II 1A: 10 Ronald L. Otten Vice President of Engineering E-Z-GO Division of Textron Inc. 1451 Marvin Griffin Road Augusta, GA 30906 USA 20th January 2010













































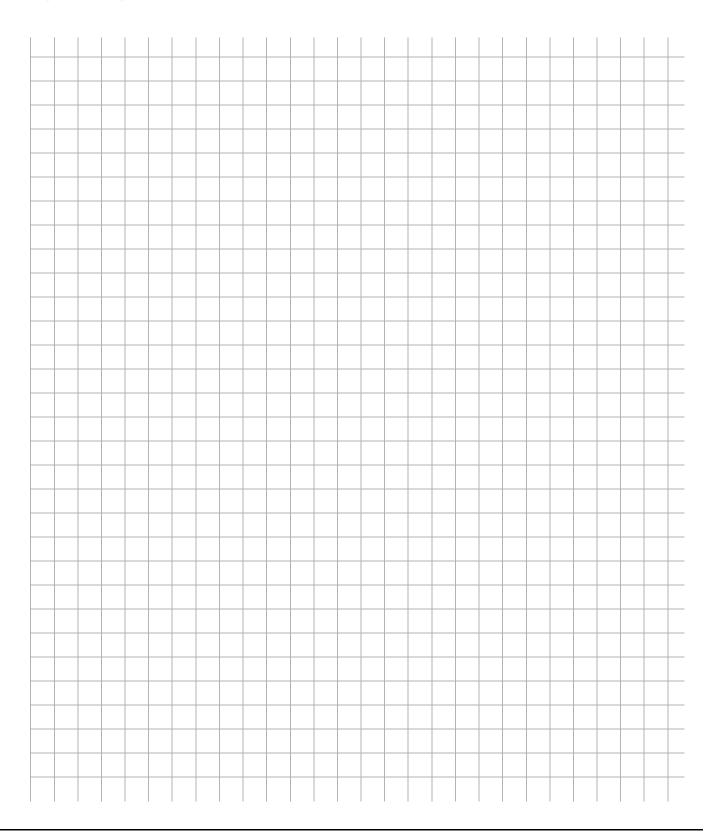












## SAFETY

#### NOTE

Read and understand the following warnings before attempting to operate the vehicle:

## **A** WARNING

To prevent personal injury or death, observe the following:

When vehicle is to be left unattended, engage parking brake, move direction selector to 'F' (forward) position, turn key to 'OFF' position and remove key.

Drive vehicle only as fast as terrain and safety considerations allow. Consider the terrain and traffic conditions. Consider environmental factors which effect the terrain and the ability to control the vehicle.

Avoid driving fast down hill. Sudden stops or change of direction may result in a loss of control. Use service brake to control speed when traveling down an incline.

Use extra care and reduced speed when driving on poor surfaces, such as loose dirt, wet grass, gravel, etc.

All travel should be directly up or down hills.

Use extra care when driving the vehicle across an incline.

Stay in designated areas and avoid steep slopes. Use the parking brake whenever the vehicle is parked.

Keep feet, legs, hands and arms inside vehicle at all times.

Avoid extremely rough terrain.

Check area behind the vehicle before operating in reverse.

Make sure the direction selector is in correct position before attempting to start the vehicle.

Slow down before and during turns. All turns should be executed at reduced speed.

Always bring vehicle to a complete stop before shifting the direction selector.

See GENERAL SPECIFICATIONS for vehicle load and seating capacity.

#### NOTE

Read and understand the following text and warnings before attempting to service vehicle:

In any product, components will eventually fail to perform properly as the result of normal use, age, wear or abuse.

It is virtually impossible to anticipate all possible component failures or the manner in which each component may fail.

Be aware that a vehicle requiring repair indicates that the vehicle is no longer functioning as designed and therefore should be considered potentially hazardous. Use extreme care when working on any vehicle. When diagnosing, removing or replacing any components that are not operating correctly, take time to consider the safety of yourself and others around you should the component move unexpectedly.

Some components are heavy, spring loaded, highly corrosive, explosive or may produce high amperage or reach high temperatures. Gasoline, carbon monoxide, battery acid and hydrogen gas could result in serious bodily injury to the technician/mechanic and bystanders if not treated with the utmost caution. Be careful not to place hands, face, feet or body in a location that could expose them to injury should an unforeseen situation occur.

Always use the appropriate tools listed in the tool list and wear approved safety equipment.

## **WARNING**

Before working on the vehicle, remove all jewelry (rings, watches, necklaces, etc.)

Be sure that no loose clothing or hair can contact moving parts.

Use care not to touch hot objects.

Raise rear of vehicle and support on jack stands before attempting to run or adjust powertrain.

Wear eye protection when working on or around vehicle. In particular, use care when working around batteries, using solvents or compressed air.

Hydrogen gas is formed when charging batteries. Do not charge batteries without adequate ventilation.

Do not permit open flame or anyone to smoke in an area that is being used for charging batteries. A concentration of 4% hydrogen gas or more is explosive.

Engine exhaust gas (carbon monoxide) is deadly. Carbon monoxide is an odorless, colorless gas that is formed as a natural part of incomplete combustion of hydrocarbon fuels. Carbon monoxide is a dangerous gas that can cause unconsciousness and is potentially lethal.

The following are symptoms of carbon monoxide inhalation:

- Dizziness
- Vomiting
- Intense headache
- Muscular twitching
- Weakness and sleepiness
- Throbbing in temples

If any of these symptoms are experienced, get fresh air immediately. Never work around or operate a vehicle in an environment that does not ventilate exhaust gases from the area.



## A Textron Company



E-Z-GO Division Of Textron, Inc., 1451 Marvin Griffin Road, Augusta, Georgia USA 30906-3852

#### TO CONTACT US

North America:

Technical Assistance & Warranty Phone: 1-800-774-3946, FAX: 1-800-448-8124 Service Parts Phone: 1-888-GET-EZGO (1-888-438-3946), FAX: 1-800-752-6175

International:

Phone: 001-706-798-4311, FAX: 001-706-771-4609



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